

INVESTIGATION SUMMARY AND MONITORING WELL SCOPING
BUILDINGS 386, 388, AND 390 AREA

2/16 discussed w/ wgt and fl' foring (3130-00345)
(488197135)
near 388GB008
and volc, svrc an dys
for MWs

A. Site History

The Buildings 386, 388, and 390 Area is located southeast of 12th Street between Railroad and Cedar avenues (see attached figure). The three buildings are part of a superstructure that was built in 1922. The superstructure has been used as a metalworking facility since its construction, although the metalworking tasks, machinery, and methods have periodically changed through the years. The machines located in Buildings 386, 388, and 390 used recycled coolants and lubricants that probably contained PCBs.

The Buildings 386, 388, and 390 Area is located in Investigation Area C and is designated as an area for heavy industry. Groundwater is first encountered at approximately 2.5 feet bgs and flows toward the northeast.

B. Data Gaps

The data gaps identified in the FSAP were:

- Potential soil and groundwater contamination of the concrete and earthen vaults beneath the drill presses and the steel grate floor as a result of normal operations
- Potential soil and groundwater contamination beneath other parts of the buildings

C. Round 1 Sampling

Three Geoprobe borings (B386GB001 through B386GB003) were advanced to depths from 6 to 16 feet bgs inside Building 386 during Round 1 sampling (see attached figure). A total of six soil samples and three grab groundwater samples were collected.

Two Geoprobe borings (B388GB001 and B388GB002) were advanced to a depth of approximately 8 feet bgs inside Building 388 during Round 1 sampling (see attached figure). A total of two soil samples and two grab groundwater samples were collected.

Eight Geoprobe borings (B390GB001 through B390GB008) were advanced to depths from 10 to 14 feet bgs inside Building 390 during Round 1 sampling (see attached figure). A total of 24 soil samples and eight grab groundwater samples were collected.

Round 2 sampling was scoped to address the following issues:

- Extent of soil and groundwater contamination under Building 386
- Data gap with respect to potential soil contamination in the vicinity of B388GB002
- Data gap with respect to potential groundwater contamination in the vicinity of B390GB001

- Extent of soil and groundwater contamination southeast of the 1,000-ton press located in Building 390
- Extent of soil and groundwater contamination in the vicinity of the steel grate floor located in the southeast end of Building 390

D. Round 2 Sampling

Six Geoprobe borings were advanced inside Building 386 and one boring was advanced outside during Round 2 sampling (B386GB004 through B386GB010). Three of the borings were advanced to approximately 5.5 feet bgs, while the remaining four borings were advanced to approximately 9 feet bgs. A total of 29 soil samples and seven grab groundwater samples were collected.

Four Geoprobe borings (B388GB003 through B388GB006) were advanced inside Building 388 to depths from 9 to 11.5 feet bgs during Round 2 sampling. A total of 18 soil samples and one grab groundwater sample were collected.

Eight Geoprobe borings (B390GB010 through B390GB017) were advanced inside Building 390 to approximately 10.5 feet bgs during Round 2 sampling. A total of 39 soil samples and four grab groundwater samples were collected.

Round 3 sampling was scoped to address the following issues:

- Extent of sandblast grit and TPH contamination in soil and groundwater associated with B386GB006
- Extent of TPH contamination in soil and groundwater southwest of Building 386
- Data gap with respect to potential soil and groundwater contamination of the central area of Building 388
- Extent of soil and groundwater contamination in the vicinity of the southeast end of the steel grate floor located in Building 390

E. Round 3 Sampling

Three Geoprobe borings (B382GB001 through B382GB003) were advanced inside Building 382 to a depth of 11.0 feet bgs during Round 3 sampling. One Geoprobe boring (B382GB004) was advanced outside of Building 382 to a depth of 11.0 feet bgs. A total of 21 soil samples were collected. Samples were collected at depths of 0.0 feet bgs, 2.0 feet bgs, 4.0 feet bgs, 6.0 feet bgs, 8.0 feet bgs, and 10.0 feet bgs. In addition, four grab groundwater samples were collected.

Six Geoprobe borings (B386GB011 through B386GB014, B386GB017, and B386GB018) were advanced inside Building 386 to approximately 11.0 feet bgs during Round 3 sampling. Two borings (B386GB015 and B386GB016) were advanced outside of Building 386 to a depth of 11 feet bgs. A total of 48 soil samples were collected. Samples were collected at depths of 0.0 feet bgs, 2.0 feet bgs, 4.0 feet bgs, 6.0 feet bgs, 8.0 feet bgs, and 10.0 feet bgs. In addition, five grab groundwater samples were collected.

Two Geoprobe borings (B388GB007 and B388GB008) were advanced to approximately 11.0 feet bgs during Round 3 sampling. A total of twelve soil samples were collected. Samples were collected at depths of 0.0 feet bgs, 2.0 feet bgs, 4.0 feet bgs, 6.0 feet bgs, 8.0 feet bgs and 10.0 feet bgs. In addition, one grab groundwater sample was collected.

F. Analytical Results

This section describes the significant analytical results of the nonaqueous (soil) samples followed by the results for aqueous (grab groundwater) samples taken at the Building 386, 388, and 390 Area.

Soil Samples

Validated analytical results for nonaqueous samples collected during Rounds 1, 2, and 3 are summarized in Table 1. A statistical summary of the results is presented in Table 2.

All soil samples collected during Round 1 were analyzed for metals, VOCs, SVOCs, pesticides, PCBs, TPH-purgeable, and TPH-extractable. The majority of soil samples collected during Rounds 2 and 3 were analyzed only for constituents detected at concentrations exceeding screening criteria in Round 1 samples. Screening criteria were not exceeded for any of the analyzed VOCs; screening criteria were exceeded for all other analyte groups. The results that exceed screening criteria are presented below.

Metals

Antimony was detected at concentrations exceeding the residential PRG in four soil samples: B390GB007 at 0.0 feet bgs (36.4 mg/kg), B390GB008 at 0.0 feet bgs (39.1 mg/kg), B390GB015 at 3.0 feet bgs (46.8 mg/kg), and B390GB016 at 3.0 feet bgs (31.4 mg/kg). All four soil samples are associated with the steel grate area in southeastern Building 390.

Arsenic was detected at a concentration exceeding screening criteria in B388GB006 at 4.0 feet bgs (58.6 mg/kg).

Beryllium was detected at concentrations exceeding the residential PRG in five soil samples collected from borings B388GB001, B390GB001, B390GB006, and B390GB007. The maximum concentration of 2.9 mg/kg was detected in B390GB006 at 0.0 feet bgs.

Cadmium was detected at concentrations exceeding the residential PRG in two soil samples: B390GB014 at 3.0 feet bgs (33.9 mg/kg) and B390GB015 at 3.0 feet bgs (15.1 mg/kg), both of which are associated with the steel grate area in southeastern Building 390.

Copper was detected at concentrations exceeding the residential PRG in three soil samples: B390GB007 at 0.0 feet bgs (3,780 mg/kg), B390GB014 at 3.0 feet bgs (7,000 mg/kg), and B390GB015 at 3.0 feet bgs (5,000 mg/kg). All three soil samples are associated with the steel grate area in southeastern Building 390.

Lead was detected at concentrations exceeding the Group II/III screening criteria in 20 soil samples from 18 Geoprobe borings. Ten of the 20 samples are associated with surface and shallow subsurface soil in Building 386. Nine of the samples are associated with the steel grate area in southeastern Building 390. The remaining sample is associated with the 1,000 ton press in Building 390. The maximum concentration of 2,340 mg/kg was detected in B390GB007 at 0.0 feet bgs.

Manganese was detected at concentrations exceeding the residential PRG in three soil samples: B390GB004 at 5.0 feet bgs (5,540 mg/kg), B390GB008 at 0.0 feet bgs (5,510 mg/kg), and B390GB006 at 0.0 feet bgs (3,960 mg/kg).

Nickel was detected at concentrations exceeding the residential PRG in 20 soil samples from 15 Geoprobe borings. Eleven of the 20 samples are associated with surface and shallow subsurface soil in Building 386. Eight samples are associated with the steel grate area in southeastern Building 390. The remaining sample is associated with the 1,000-ton press in Building 390. The maximum concentration of 2,930 mg/kg was detected in B390GB015 at 3.0 feet bgs.

Volatile Organic Compounds

VOCs were not detected at concentrations above the screening criteria in soil samples collected at the site.

Semivolatile Organic Compounds

Benzo(a)pyrene was detected at concentrations exceeding screening criteria in ten soil samples from eight borings. Eight of the samples are associated with the steel grate area in southeastern Building 390. The two remaining samples are associated with B388GB003. The maximum concentration of 0.2 mg/kg was detected in B388GB003 at 10.0 feet bgs.

Pesticides

Aldrin was detected at concentrations exceeding screening criteria in B390GB007 at 0 to 0.5 feet bgs (0.04 mg/kg).

Polychlorinated Biphenyls

Aroclor-1254 was detected at concentrations exceeding screening criteria in three soil samples: B390GB007 at 0.0 feet bgs (2 mg/kg), B390GB015 at 3.0 feet bgs (5 mg/kg), and B390GB016 at 3.0 feet bgs (5 mg/kg). All three soil samples are associated with the steel grate area in southeastern Building 390.

Petroleum Indicators

TPH-motor oil was detected at concentrations exceeding screening criteria in 49 soil samples from 28 borings. Twenty-five of the 49 samples are associated with surface and shallow subsurface soil in Building 386. Twenty-one samples are associated with the steel grate area in southeastern Building 390. The remaining three samples are associated with B388GB003. The maximum concentration of 18,000 mg/kg was detected in B386GB010 at 0.0 feet bgs.

TPH-diesel was detected at concentrations exceeding screening criteria in 15 samples from nine borings. Twelve of the 15 samples are associated with surface and shallow subsurface soil in Building 386. Two samples are associated with the steel grate area in southeastern Building 390. The remaining sample is associated with B388GB003. The maximum concentration of 9,100 mg/kg was detected in B386GB010 at 0.0 feet bgs.

Groundwater Samples

Validated analytical results for aqueous samples collected during Rounds 1, 2, and 3 are summarized in Table 3.

More samples near B386GB010
motor oil outside site boundary @ 386B003 1,400 mg/kg

All grab groundwater samples collected during Round 1 were analyzed for VOCs, SVOCs, and petroleum indicators. During Rounds 2 and 3, grab groundwater samples were analyzed for compounds detected during Round 1 in the vicinity of the boring. The results of these analyses are presented below. In accordance with the FSAP, grab groundwater samples were not analyzed for metals, pesticides, or PCBs.

Volatile Organic Compounds

The following VOCs were detected in groundwater:

- 1,1,2,2-Tetrachloroethane in B386GB001 at 81 µg/L
- 1,1-Dichlorethane in B386GB009 at 36 µg/L and in B390GB013 at 0.6 µg/L
- 2-Butanone in B386GB004 at 1 µg/L, in B386GB005 at 14 µg/L, in B386GB007 at 1 µg/L, in B386GB008 at 0.8 µg/L, in B386GB009 at 29 µg/L, in B386GB010 at 9 µg/L, in B390GB010 at 0.5 µg/L, in B390GB013 at 0.4 µg/L, and in B390GB017 at 0.7 µg/L
- 2-Hexanone in B390GB013 at 0.5 µg/L
- 4-Methyl-2-pentanone in B386GB006 at 2 µg/L, in B386GB007 at 1 µg/L, and in B386GB008 at 4 µg/L
- Acetone in B390GB007 at 32 µg/L
- Benzene in B388GB002 at 0.7 µg/L
- Bromoform in B390GB017 at 0.6 µg/L
- Carbon disulfide in B386GB007 at 0.4 µg/L and in B388GB006 at 0.4 µg/L
- Ethylbenzene in B386GB003 at 130 µg/L and in B386GB006 at 0.5 µg/L
- Toluene in B386GB012 at 0.6 µg/L, in B388GB002 at 4 µg/L, in B390GB002 at 0.6 µg/L, and in B390GB004 at 1 µg/L
- Xylene in B386GB001 at 35 µg/L, in B386GB003 at 830 µg/L, in B386GB006 at 4 µg/L, in B386GB007 at 2 µg/L, in B386GB012 at 0.5 µg/L, in B388GB002 at 1 µg/L, in B388GB004 at 0.8 µg/L, in B388GB006 at 0.5 µg/L, in B390GB004 at 1 µg/L, and in B390GB013 at 1 µg/L

Semivolatile Organic Compounds

The following SVOCs were detected in groundwater:

- 2,4-Dimethylphenol in B382GB003 at 2 µg/L, in B388GB006 at 1,200 µg/L, and in B390BG007 at 74 µg/L
- 2,4-Dinitrotoluene in B390GB002 at 1 µg/L
- 2-Methylnaphthalene in B390GB003 at 2 µg/L and in B390GB004 at 25 µg/L
- 2-Methylphenol in B382GB003 at 3 µg/L and in B388GB006 at 5 µg/L
- 4-Methylphenol in B382GB002 at 1 µg/L, in B382GB003 at 11 µg/L, in B388GB006 at 6 µg/L, and in B390GB007 at 13 µg/L
- Acenaphthalene in B390GB003 at 4 µg/L, in B390GB004 at 43 µg/L, in B390GB005 at 5 µg/L, and in B390GB010 at 4 µg/L
- Anthracene in B390GB004 at 1 µg/L
- Benzo(a)anthracene in B390GB005 at 2 µg/L
- Benzo(a)pyrene in B390GB002 at 2 µg/L
- Benzo(b)flouranthene in B390GB002 at 2 µg/L
- Benzo(g,h,i)perylene in B390GB002 at 4 µg/L
- Benzo(k)fluoranthene in B390GB002 at 2 µg/L
- Bis(2-ethylhexyl)phthalate in B388GB002 at 470 µg/L and in B390GB002 at 540 µg/L
- Carbazole in B390GB004 at 4 µg/L

- Dibenz(a,h)anthracene in B390GB002 at 7 µg/L
- Dibenzofuran in B390GB003 at 1 µg/L, in B390GB004 at 21 µg/L, and in B390GB005 at 4 µg/L
- Di-n-butylphthalate in B386GB010 at 14 µg/L
- Fluoranthene in B390GB004 at 2 µg/L and in B390GB005 at 1 µg/L
- Fluorene in B382GB001 at 2 µg/L, in B386GB005 at 1 µg/L, in B390GB003 at 1 µg/L, in B390GB004 at 21 µg/L, and in B390GB005 at 5 µg/L
- Indeno(1,2,3-cd)pyrene in B390GB002 at 4 µg/L
- Naphthalene in B390GB003 at 2 µg/L, in B390GB004 at 3 µg/L and in B390GB005 at 2 µg/L
- Phenanthrene in B382GB001 at 2 µg/L, in B386GB005 at 1 µg/L, and in B390GB004 at 12 µg/L
- Phenol in B382GB003 at 29 µg/L, in B386GB001 at 6 µg/L, in B386GB004 at 3 µg/L, in B386GB010 at 19 µg/L, in B388GB001 at 5 µg/L, and in B390GB005 at 16 µg/L
- Pyrene in B390GB004 at 1 µg/L

Petroleum Indicators

TPH-diesel was detected in 15 grab groundwater samples from various locations throughout Buildings 382, 386, 388, and 390. The maximum concentration of 54,000 mg/L was detected in B382GB001.

TPH-motor oil was detected in nine grab groundwater samples from various locations throughout Buildings 382, 386, 388, and 390. The maximum concentration of 150,000 mg/L was detected in B382GB001.

TPH-gasoline was detected in the grab groundwater sample collected from B386GB003 at a concentration of 2 mg/L.

G. Recommendations

Based on the distribution of contaminants exceeding screening criteria in soil and grab groundwater samples collected during Rounds 1, 2, and 3, monitoring wells are recommended for installation at the following locations:

- Inside Building 388, near the south end, to serve as an upgradient well to the steel grate area
- Outside Building 390, near the south end, to serve as a downgradient well to the steel grate area
- Inside Building 388, near the north end, to serve as a downgradient well to IR21

These monitoring wells are recommended for installation based on the following considerations:

- 32 of 58 screening criteria exceedances for metals in soil were associated with the steel grate area
- 21 of the 26 screening criteria exceedances for metals in soil outside the steel grate area were associated with Building 386, 10 of which involved lead values less than 1,100 mg/kg and 11 of which involved nickel values less than 1,060 mg/kg. Installation of monitoring wells is not considered warranted in response to these limited exceedances of the industrial PRGs.
- No significant screening criteria exceedances for metals in soil occurred in areas other than Building 386 and the steel grate area

- Specific VOC and SVOC compounds were not consistently detected in grab groundwater samples outside of the steel grate area
- Suspected source areas for VOCs and SVOCs were not identified outside of the steel grate area
- The extent of TPH contamination in Building 386 in soil and groundwater has been adequately delineated
- Suspected source areas for TPH were not identified outside of Building 386 and the steel grate area
- A downgradient monitoring well for the IR21 area is needed to adequately monitor TPH in groundwater at this former quench tank area

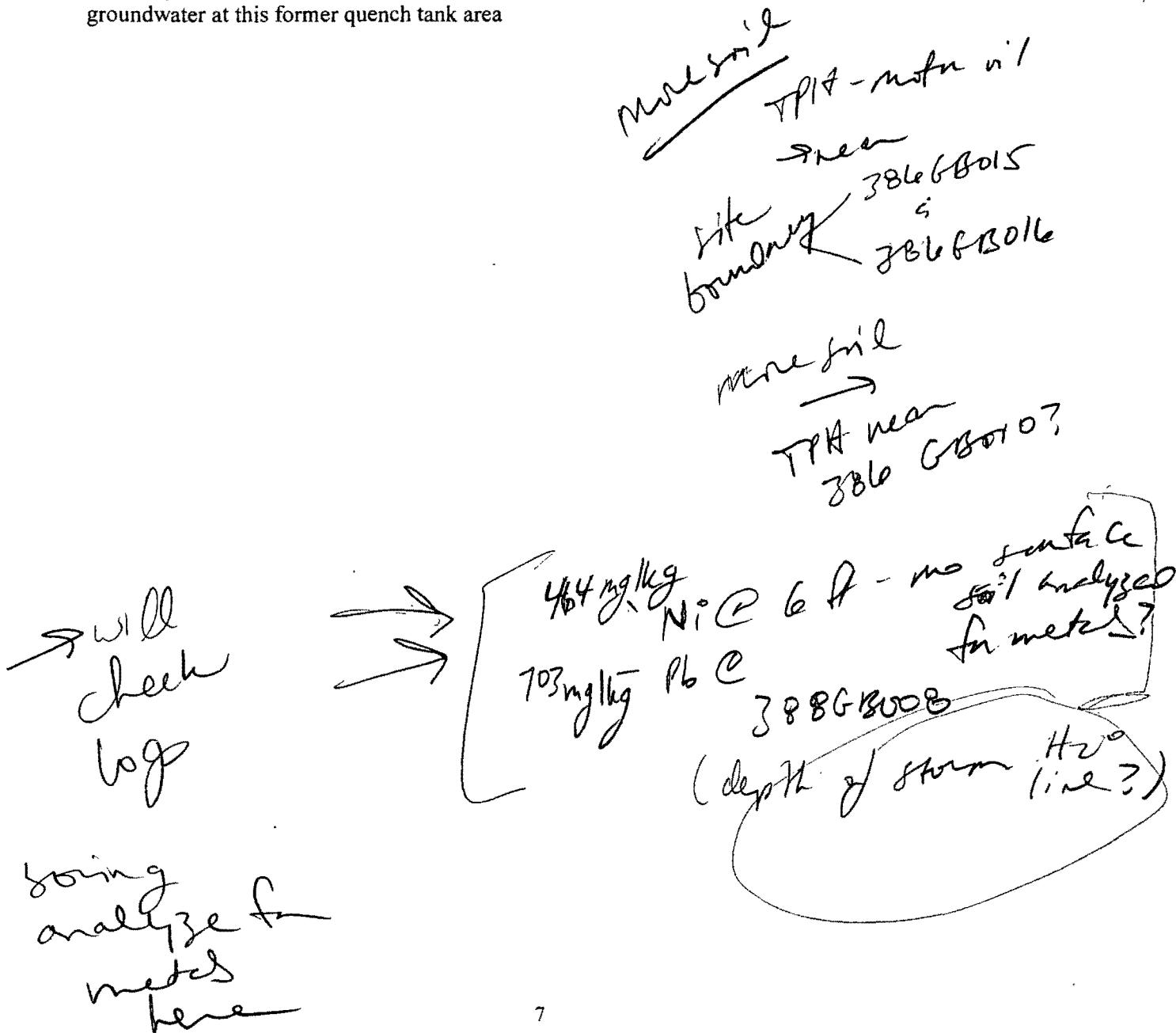


TABLE 2
BUILDINGS 382, 386, 388, AND 390 STATISTICAL SUMMARY OF SOIL ANALYSES
MARE ISLAND, CALIFORNIA

Analyte	Number of Detections/Analyses	Maximum Detected Conc. (mg/kg)	Average of Detected Conc. (mg/kg)	Number of Samples With Conc. Greater than PRG or Group II/III Screening Value (mg/kg) ¹	Number of Samples With Conc. Greater than PRG and the 95th Ambient ²	Number of Discrete Loc. With Sample Conc. Greater than PRG and the 95th Ambient ²	Number of Samples With Conc. Greater than PRG and the 99th Ambient ²	Number of Discrete Loc. With Sample Conc. Greater than PRG and the 99th Ambient ²	PRG or Group II/III Screening Value (mg/kg) ¹	95th Ambient Value (mg/kg)	99th Ambient Value (mg/kg)
METALS											
ALUMINUM	55/55	45,200	18,100	0	0	0	0	0	75,000	35,000	42,000
ANTIMONY	90/176	46.8	6.6	5	5	5	5	5	30	8.5	12
ARSENIC	131/177	58.6	12.0	131	1	1	1	1	0.38	36	44
BARIUM	55/55	1,030	158	0	NA	0	0	0	5,200	NA	NA
BERYLLIUM	25/55	2.9	0.82	0	0	0	0	0	150	0.9	1.1
CADMIUM	62/178	33.9	2.7	2	2	2	2	2	9	5.2	5.6
CALCIUM	178/178	328,000	17,400	NP	NE	NE	NE	NE	NP	NA	NA
CHROMIUM	178/178	4,990	235	0	0	0	0	0	77,000	140	160
CHROMIUM VI	0/18	ND	ND	0	NA	0	0	0	0.2	NA	NA
COBALT	55/178	59.3	18.4	0	NA	0	0	0	3,300	NA	NA
COPPER	176/178	7,000	250	3	3	3	3	3	2,800	120	150
IRON	178/178	216,000	47,300	165	NA	43	165	43	22,000	NA	NA
LEAD	173/178	2,340	128	21	21	19	21	19	242	59	59
MAGNESIUM	55/55	50,100	7,970	NP	NE	NE	NE	NE	NP	NA	NA
MANGANESE	178/178	5,540	734	4	4	4	4	4	3,100	1,600	2,400
MERCURY	57/178	6.0	0.94	0	0	0	0	0	22	2	10
MOLYBDENUM	34/55	475	63.5	1	NA	1	1	1	370	NA	NA
NICKEL	175/178	2,930	174	21	21	16	21	16	150	130	150
POTASSIUM	174/178	23,400	11,200	NP	NE	NE	NE	NE	NP	NA	NA
SELENIUM	2/39	3.8	3.0	0	NA	0	0	0	370	NA	NA
SILVER	41/178	11.3	2.7	0	NA	0	0	0	370	NA	NA
SODIUM	50/55	11,200	2,520	NP	NE	NE	NE	NE	NP	NA	NA
THALLIUM	21/55	2.6	1.3	0	NA	0	0	0	5.2	NA	NA
TIN	145/147	261	15.3	0	NA	0	0	0	45,000	NA	NA
TITANIUM	147/147	9,760	4,580	NP	NE	NE	NE	NE	NP	NA	NA
VANADIUM	174/178	321	128	0	0	0	0	0	520	190	220
ZINC	178/178	21,100	520	0	0	0	0	0	22,000	230	270
VOLATILE ORGANIC COMPOUNDS											
1,2-DICHLOROETHENE (TOTAL)	1/55	0.0004	0.0004	0	NA	0	0	0	42	NA	NA
4-METHYL-2-PENTANONE	1/55	0.0006	0.0006	0	NA	0	0	0	750	NA	NA
ACETONE	14/55	0.5	0.2	0	NA	0	0	0	1,400	NA	NA
BROMOMETHANE	1/55	0.005	0.005	0	NA	0	0	0	3.8	NA	NA
CHLOROBENZENE	1/55	0.001	0.001	0	NA	0	0	0	54	NA	NA

TABLE 2 (Continued)
BUILDINGS 382, 386, 388, AND 390 STATISTICAL SUMMARY OF SOIL ANALYSES
MARE ISLAND, CALIFORNIA

Analyte	Number of Detections/Analyses	Maximum Detected Conc. (mg/kg)	Average of Detected Conc. (mg/kg)	Number of Samples With Conc. Greater than PRG or Group II/III Screening Value (mg/kg) ¹	Number of Samples With Conc. Greater than PRG and the 95th Ambient ²	Number of Discrete Loc. With Sample Conc. Greater than PRG and the 95th Ambient ²	Number of Samples With Conc. Greater than PRG and the 99th Ambient ²	Number of Discrete Loc. With Sample Conc. Greater than PRG and the 99th Ambient ²	PRG or Group II/III Screening Value (mg/kg) ¹	95th Ambient Value (mg/kg)	99th Ambient Value (mg/kg)
VOLATILE ORGANIC COMPOUNDS											
CHLOROMETHANE	1/55	0.001	0.001	0	NA	0	0	0	1.2	NA	NA
ETHYLBENZENE	3/55	0.08	0.04	0	NA	0	0	0	230	NA	NA
METHYLENE CHLORIDE	2/55	0.09	0.08	0	NA	0	0	0	8.5	NA	NA
STYRENE	1/55	0.0008	0.0008	0	NA	0	0	0	1,700	NA	NA
TOluene	8/55	0.002	0.0008	0	NA	0	0	0	520	NA	NA
XYLENE (TOTAL)	8/55	0.6	0.1	0	NA	0	0	0	210	NA	NA
SEMOVOLATILE ORGANIC COMPOUNDS											
2,4-DIMETHYLPHENOL	6/100	3	0.6	0	NA	0	0	0	1,100	NA	NA
2-METHYLNAPHTHALENE	3/99	0.8	0.3	NP	NE	NE	NE	NE	NP	NA	NA
4-METHYLPHENOL	5/99	0.6	0.3	0	NA	0	0	0	270	NA	NA
ACENAPHTHENE	2/99	0.3	0.2	0	NA	0	0	0	2,600	NA	NA
ANTHRACENE	2/99	0.6	0.3	0	NA	0	0	0	14,000	NA	NA
BENZO (A) ANTHRACENE	8/100	0.3	0.1	0	NA	0	0	0	0.56	NA	NA
BENZO (A) PYRENE	14/100	0.2	0.08	9	NA	7	9	7	0.056	NA	NA
BENZO (B) FLUORANTHENE	8/100	0.3	0.1	0	NA	0	0	0	0.56	NA	NA
BENZO (G, H, I) PERYLENE	5/99	0.2	0.06	NP	NE	NE	NE	NE	NP	NA	NA
BENZO (K) FLUORANTHENE	1/99	0.04	0.04	0	NA	0	0	0	0.61	NA	NA
BIS (2-ETHYLHEXYL) PHTHALATE	3/101	10	7	0	NA	0	0	0	32	NA	NA
CHRYSENE	9/100	0.7	0.2	0	NA	0	0	0	6.1	NA	NA
DIBENZOFURAN	1/99	0.3	0.3	0	NA	0	0	0	210	NA	NA
FLUORANTHENE	18/100	0.6	0.2	0	NA	0	0	0	2,000	NA	NA
FLUORENE	2/99	0.2	0.2	0	NA	0	0	0	1,800	NA	NA
INDENO (1, 2, 3-CD) PYRENE	4/99	0.05	0.03	0	NA	0	0	0	0.56	NA	NA
NAPHTHALENE	2/99	0.3	0.3	0	NA	0	0	0	55	NA	NA
PHENANTHRENE	18/100	0.8	0.1	NP	NE	NE	NE	NE	NP	NA	NA
PHENOL	45/100	3	0.5	0	NA	0	0	0	33,000	NA	NA
PYRENE	23/100	0.8	0.1	0	NA	0	0	0	1,500	NA	NA
PESTICIDES/PCBs											
4,4'-DDD	8/77	0.03	0.01	0	NA	0	0	0	2.4	NA	NA
4,4'-DDE	3/77	0.01	0.005	0	NA	0	0	0	1.7	NA	NA
4,4'-DDT	12/77	0.9	0.1	0	NA	0	0	0	1.7	NA	NA
ALDRIN	11/76	0.04	0.008	1	NA	1	1	1	0.026	NA	NA

TABLE 2 (Continued)
BUILDINGS 382, 386, 388, AND 390 STATISTICAL SUMMARY OF SOIL ANALYSES
MARE ISLAND, CALIFORNIA

Analyte	Number of Detections/Analyses	Maximum Detected Conc. (mg/kg)	Average of Detected Conc. (mg/kg)	Number of Samples With Conc. Greater than PRG or Group II/III Screening Value (mg/kg) ¹	Number of Samples With Conc. Greater than PRG and the 95th Ambient ²	Number of Discrete Loc. With Sample Conc. Greater than PRG and the 95th Ambient ²	Number of Samples With Conc. Greater than PRG and the 99th Ambient ²	Number of Discrete Loc. With Sample Conc. Greater than PRG and the 99th Ambient ²	PRG or Group II/III Screening Value (mg/kg) ¹	95th Ambient Value (mg/kg)	99th Ambient Value (mg/kg)
PESTICIDES/PCBs											
ALPHA-CHLORDANE	6/77	0.02	0.005	0	NA	0	0	0	1.6	NA	NA
ACROCLOR-1254	12/100	5	2	5	NA	5	5	5	1	NA	NA
ACROCLOR-1260	8/100	0.5	0.09	0	NA	0	0	0	1	NA	NA
DELTA-BHC	13/76	0.006	0.003	NP	NE	NE	NE	NE	NP	NA	NA
DIELDRIN	1/76	0.09	0.09	1	NA	1	1	1	0.028	NA	NA
ENDOSULFAN II	5/76	0.06	0.02	0	NA	0	0	0	330	NA	NA
ENDOSULFAN SULFATE	3/77	0.02	0.009	NP	NE	NE	NE	NE	NP	NA	NA
ENDRIN	9/76	0.2	0.04	0	NA	0	0	0	16	NA	NA
ENDRIN KETONE	4/77	0.02	0.01	NP	NE	NE	NE	NE	NP	NA	NA
GAMMA-CHLORDANE	7/77	0.05	0.01	0	NA	0	0	0	1.6	NA	NA
HEPTACHLOR	6/77	0.03	0.007	0	NA	0	0	0	0.99	NA	NA
HEPTACHLOR EPOXIDE	7/77	0.02	0.006	0	NA	0	0	0	0.049	NA	NA
METHOXYCHLOR	1/76	0.03	0.03	0	NA	0	0	0	270	NA	NA
PCBs											
TOTAL PCBs	19/100	5	1	5	NA	5	5	5	1	NA	NA
ORGANOTINS											
TRIBUTYLtin	1/5	0.01	0.01	0	NA	0	0	0	16	NA	NA
PETROLEUM INDICATORS											
DIESEL RANGE	75/173	9,100	510	14	NA	8	14	8	400	NA	NA
GASOLINE RANGE	1/30	1	1	0	NA	0	0	0	150	NA	NA
MOTOR OIL RANGE	154/168	18,000	1,200	55	NA	28	55	28	400	NA	NA

Notes:

1. Alternative screening criteria are shown for lead, PCBs, and TPH only.
2. If no ambient value exists, the number of discrete locations with sample concentrations greater than the PRG is shown.

mg/kg = milligrams per kilogram

PRG = U.S. EPA preliminary remediation goal for residential use (EPA 1998)

Ambient = Estimated ambient metal concentrations in fill soils.

TABLE 2 (Continued)

BUILDINGS 382, 386, 388, AND 390 STATISTICAL SUMMARY OF SOIL ANALYSES
MARE ISLAND, CALIFORNIA

Notes (continued) :

ND = Not detected

NP = No PRG has been established.

NA = No ambient limit has been established

NE = No PRG or ambient limit has been established.

Inorganic results less than 10 are reported to two significant figures, and results greater than 10 are reported to three significant figures.

Organic results less than 10 are reported to one significant figure, and results greater than 10 are reported to two significant figures.

"R" and "Z" qualified data (rejected results and non-fuel TPH results, respectively) were excluded from the statistical summary.

BUILDINGS 386, 388, AND 390 PHASE I/II RI STATISTICAL SUMMARY OF SOIL ANALYSES
GROUP II/III INVESTIGATION
MARE ISLAND, CALIFORNIA

Analyte	Number of Detections/Analyses	Maximum Detected Conc. (mg/kg)	Average of Detected Conc. (mg/kg)	Number of Samples With Conc. Greater than the PRG or Group II/III Screening Value (mg/kg) ¹	Number of Samples With Conc. Greater Than PRG and the 95th Ambient ¹	Number of Discrete Loc. With Sample Conc. Greater Than PRG and the 95th Ambient ¹	Number of Samples With Conc. Greater Than PRG and the 99th Ambient ¹	Number of Discrete Loc. With Sample Conc. Greater Than PRG and the 99th Ambient ¹	PRG or Group II/III Screening Value (mg/kg) ²	95th Ambient Value (mg/kg)	99th Ambient Value (mg/kg)
METALS											
ALUMINUM	6/6	45,000	32,000	0	0	0	0	0	77,000	35,000	42,000
ANTIMONY	6/44	5	4	0	0	0	0	0	31	8.5	12
ARSENIC	2/6	8	7	2	0	0	0	0	0.38	36	44
BARIUM	6/6	250	200	0	NA	0	NA	0	5,300	NA	NA
BERYLLIUM	6/6	3	2	6	4	4	4	4	0.14	0.9	1.1
CADMIUM	4/44	7	5	0	0	0	0	0	9	5.2	5.6
CALCIUM	44/44	280,000	38,000	NP	NE	NE	NE	NE	NP	NA	NA
CHROMIUM	44/44	200	130	0	0	0	0	0	77,000	140	160
CHROMIUM VI	0/6	ND	ND	0	NA	0	NA	0	0.2	NA	NA
COBALT	2/44	17	13	0	NA	0	NA	0	4,600	NA	NA
COPPER	44/44	450	77	0	0	0	0	0	2,800	120	150
IRON	44/44	73,000	42,000	NP	NE	NE	NE	NE	NP	NA	NA
LEAD	47/50	2,400	200	8	8	7	8	7	242	59	59
MAGNESIUM	6/6	8,200	7,100	NP	NE	NE	NE	NE	NP	NA	NA
MANGANESE	44/44	2,000	570	0	0	0	0	0	3,200	1,600	2,400
MERCURY	0/6	ND	ND	0	0	0	0	0	23	2	10
MOLYBDENUM	0/44	ND	ND	0	NA	0	NA	0	380	NA	NA
NICKEL	44/44	120	69	0	0	0	0	0	150	130	150
POTASSIUM	44/44	16,000	9,500	NP	NE	NE	NE	NE	NP	NA	NA
SELENIUM	0/6	ND	ND	0	NA	0	NA	0	380	NA	NA
SILVER	3/44	6	4	0	NA	0	NA	0	380	NA	NA
SODIUM	5/6	5,900	4,400	NP	NE	NE	NE	NE	NP	NA	NA
THALLIUM	0/6	ND	ND	0	NA	0	NA	0	54	NA	NA
TIN	38/38	79	17	0	NA	0	NA	0	46,000	NA	NA
TITANIUM	38/38	8,200	4,300	NP	NE	NE	NE	NE	NP	NA	NA
VANADIUM	43/44	220	120	0	0	0	0	0	540	190	220
ZINC	44/44	3,400	240	0	0	0	0	0	23,000	230	270
VOLATILE ORGANIC COMPOUNDS											
2-BUTANONE	1/6	0.02	0.02	0	NA	0	NA	0	7,100	NA	NA
ACETONE	2/6	0.1	0.1	0	NA	0	NA	0	2,100	NA	NA
CARBON DISULFIDE	1/6	0.005	0.005	0	NA	0	NA	0	7.5	NA	NA
ETHYLBENZENE	2/44	30	15	0	NA	0	NA	0	230	NA	NA
TOLUENE	2/44	0.1	0.1	0	NA	0	NA	0	790	NA	NA
TRICHLOROETHENE	4/6	0.03	0.01	0	NA	0	NA	0	32	NA	NA

BUILDINGS 386, 388, AND 390 PHASE I/II RI STATISTICAL SUMMARY OF SOIL ANALYSES
GROUP II/III INVESTIGATION
MARE ISLAND, CALIFORNIA

Analyte	Number of Detections/Analyses	Maximum Detected Conc. (mg/kg)	Average of Detected Conc. (mg/kg)	Number of Samples With Conc. Greater than the PRG or Group II/III Screening Value (mg/kg) ¹	Number of Samples With Conc. Greater Than PRG and the 95th Ambient ¹	Number of Discrete Loc. With Sample Conc. Greater Than PRG and the 95th Ambient ¹	Number of Samples With Conc. Greater Than PRG and the 99th Ambient ¹	Number of Discrete Loc. With Sample Conc. Greater Than PRG and the 99th Ambient ¹	PRG or Group II/III Screening Value (mg/kg) ²	95th Ambient Value (mg/kg)	99th Ambient Value (mg/kg)
VOLATILE ORGANIC COMPOUNDS											
XYLENE (TOTAL)	3/44	47	16	0	NA	0	NA	0	320	NA	NA
PESTICIDES/PCBs											
AROCLOR-1260	3/30	0.7	0.4	0	NA	0	NA	0	1	NA	NA
PCBs											
TOTAL PCBs	3/30	0.7	0.4	0	NA	0	NA	0	1	NA	NA
PETROLEUM INDICATORS											
DIESEL RANGE GASOLINE RANGE TRPH	7/44 4/44 1/4	13,000 340 82	1,900 89 82	1 1 NP	NA NA NE	1 1 NE	NA NA NE	1 1 NE	400 150 NP	NA NA NA	NA NA NA
TOTAL ORGANIC CARBON											
TOC	2/2	3,300	2,600	NP	NE	NE	NE	NE	NP	NA	NA

Notes:

1 If no ambient value exists, the number of discrete locations with sample concentrations greater than the PRG is shown.

2 Group II/III screening criteria are shown for lead, PCBs, and TPH only.

mg/kg = milligrams per kilogram

PRG = U.S. EPA preliminary remediation goal for residential use (EPA 1996).

Ambient = Estimated ambient metal concentrations in fill soils.

ND = Not detected

NP = No PRG has been established.

NA = No ambient limit has been established.

NE = No PRG or ambient limit has been established.

TRPH = Total recoverable petroleum hydrocarbon

Inorganic results less than 10 are reported to two significant figures, and results greater than 10 are reported to three significant figures.

**BUILDINGS 386, 388, AND 390 PHASE I/II RI STATISTICAL SUMMARY OF SOIL ANALYSES
GROUP II/III INVESTIGATION
MARE ISLAND, CALIFORNIA**

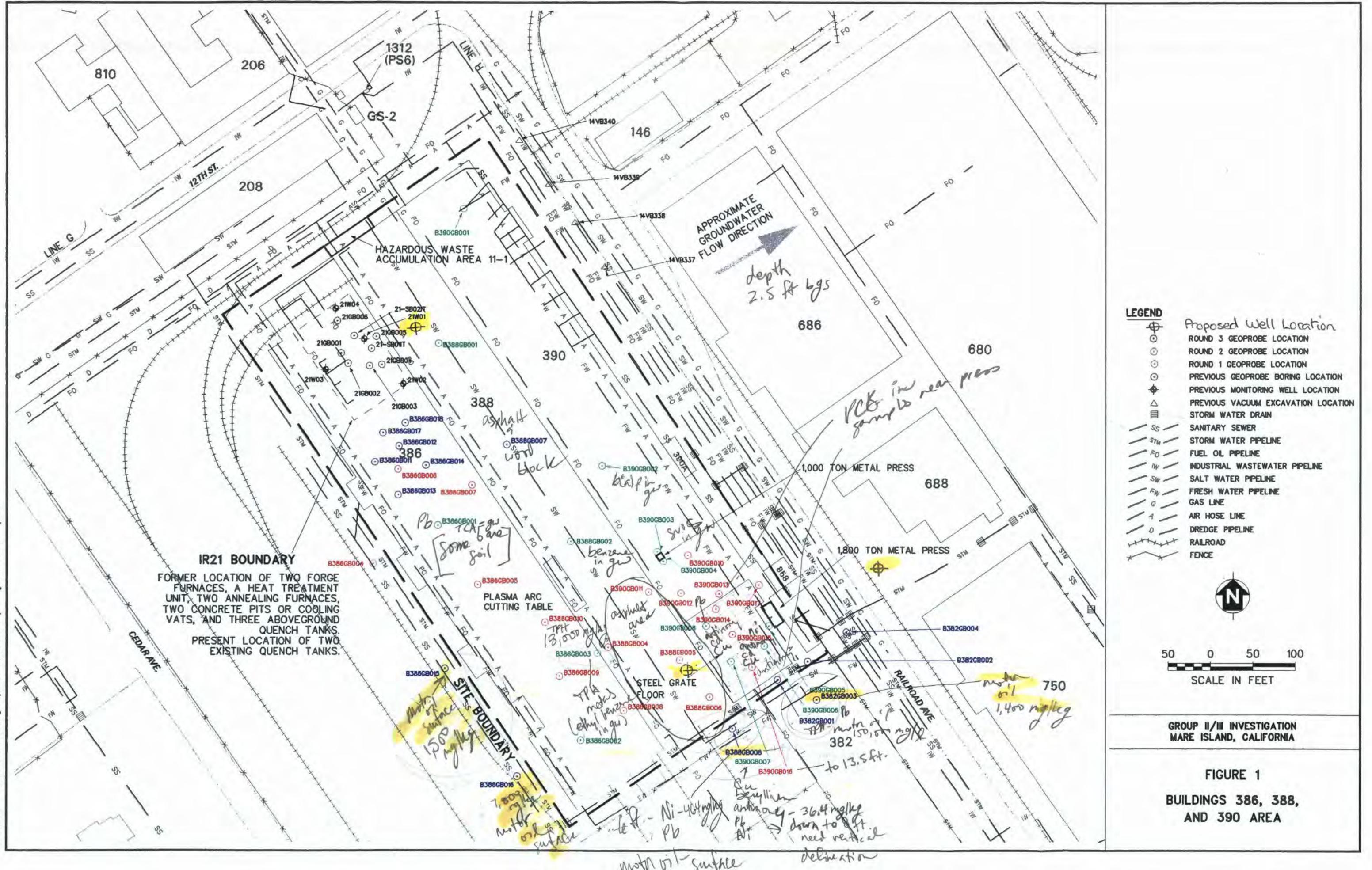
Notes (continued):

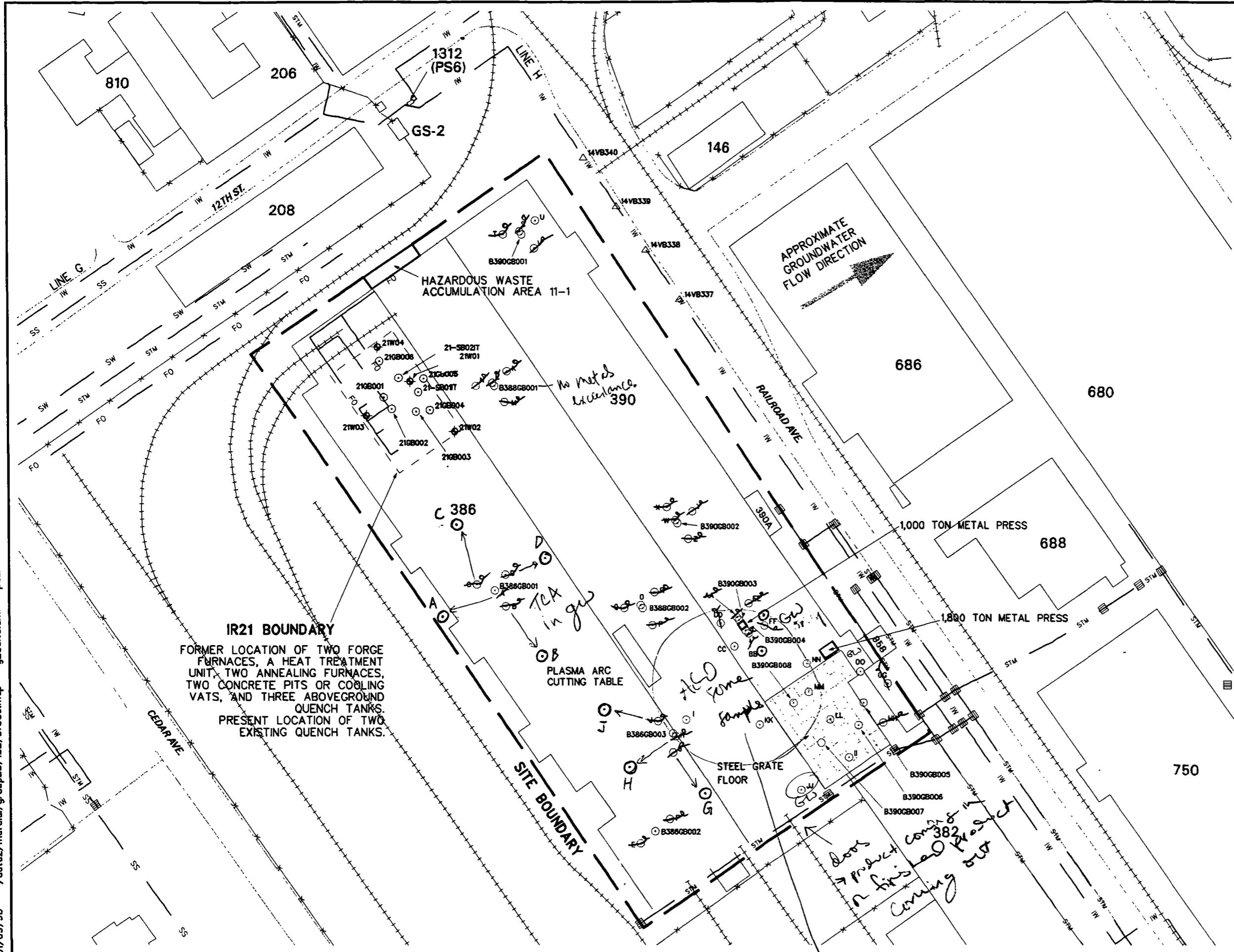
Organic results less than 10 are reported to one significant figure, and results greater than 10 are reported to two significant figures.

EH; mag23386.dft

386/388/390

1. Big area/phase I investigation/sample distribution. Another case where following FSAP protocol doesn't make the most sense. In lieu of stepping out with 4 locations at each hit, broader coverage with full suite of analytes is recommended.
2. Good coverage of steel grate area is proposed. Full siute required.
3. Grab gw samples proposed for each new location. We do need more Gw but taking samples so close together is not the recommended approach. Broader coverage preferred.
4. Need to collect some grab gw for metals (filt and unfilt).
5. Review via ArcView the gw results at IR21.
6. Why was one press but not the other included in the sampling proposed?
7. Which portions of the flooring were/still are dirt?
8. What is the location, condition of drains?
9. What is the condition of the floor?
10. Locations of activities in the building not fully described.
11. what activiteis were associated with the steel grate floor? Which portion is dirt?
12. Any potetnila for asbsetos disposal here?
13. what was Hg used for? where?
14. what metals used in welding electrodes?
15. What is location of the overflow line from arc welding table?
16. what is use of B 390A and B848?
17. Gw is essentillay at the surface (2.5 'bgs)
18. what is volume of quenching material? How managed onsite?
19. low collection of samples at some locations. What was encountered? What is subsurface here?





Revised MAP

3/3/95

LEGEND

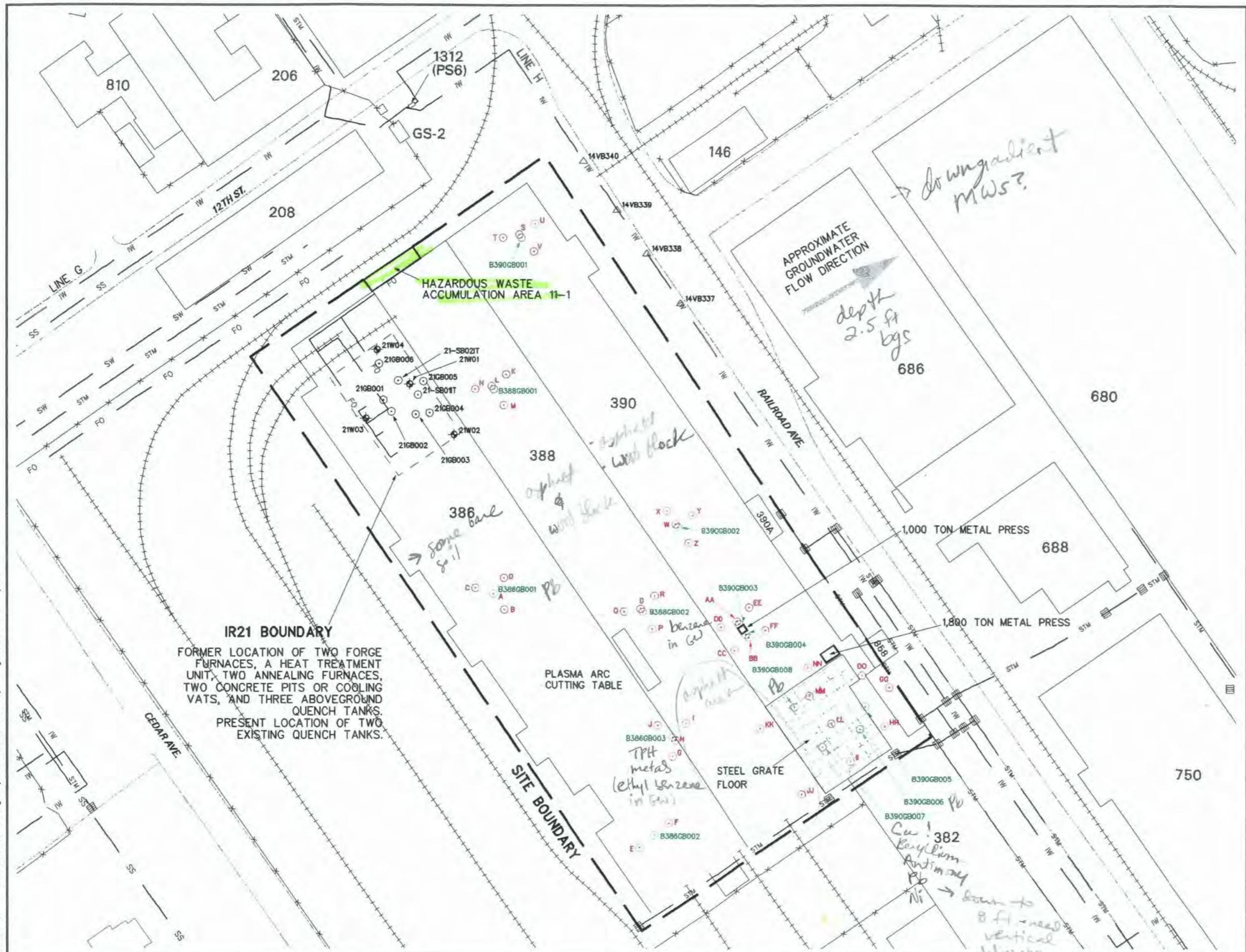
- PROPOSED GEOPROBE LOCATION
- GEOPROBE LOCATION
- PREVIOUS GEOPROBE BORING LOCATION
- ◆ PREVIOUS MONITORING WELL LOCATION
- △ PREVIOUS VACUUM EXCAVATION LOCATION
- STORM WATER DRAIN
- SS SANITARY SEWER
- STM STORM WATER PIPELINE
- FO FUEL OIL PIPELINE
- IW INDUSTRIAL WASTEWATER PIPELINE
- SW SALT WATER PIPELINE
- RAILROAD RAILROAD
- FENCE FENCE



50 0 50 100
SCALE IN FEET

GROUP II/III INVESTIGATION
MARE ISLAND, CALIFORNIA

FIGURE 1
BUILDINGS 386, 388,
AND 390 AREA



Step - out will be
> 20 ft.

LEGEND

- PROPOSED GEOPROBE LOCATION
- GEOPROBE LOCATION
- PREVIOUS GEOPROBE BORING LOCATION
- PREVIOUS MONITORING WELL LOCATION
- △ PREVIOUS VACUUM EXCAVATION LOCATION
- STORM WATER DRAIN
- SS SANITARY SEWER
- STM STORM WATER PIPELINE
- FO FUEL OIL PIPELINE
- IW INDUSTRIAL WASTEWATER PIPELINE
- SW SALT WATER PIPELINE
- RAILROAD
- FENCE



50 0 50 100

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B388GB007 ^S	B388GB008 ^S	B390GB001	B390GB001	B390GB002	B390GB003	B390GB003					
Sample Depth (feet BGS)	10.0 - 10.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	3.0 - 4.0	4.0 - 5.0	3.0 - 4.0	5.0 - 6.0	2.0 - 3.0
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL						
METALS (mg/kg)												
ALUMINUM	21,600	NA	NA	NA	NA	15,200	NA	NA	31,500	37,700 *	23,500	12,600
ANTIMONY	--	NA	NA	NA	NA	11.6 J *	NA	NA	1.2 J	1.0 J	--	--
ARSENIC	8.8 J I	NA	NA	NA	NA	17.1 I	NA	NA	7.1 I	13.3 I	15.0 J I	6.4 J I
BARIUM	41.3 J	NA	NA	NA	NA	222	NA	NA	76.0	94.9	71.7	133
BERYLLIUM	--	NA	NA	NA	NA	--	NA	NA	0.89 J	1.0 J *	0.69 J	0.61 J
CADMUM	--	NA	NA	NA	NA	1.6 J	NA	NA	--	--	--	--
CALCIUM	4,760	NA	NA	NA	NA	31,400	NA	NA	3,270	3,530	3,080	3,670
CHROMIUM	112	NA	NA	NA	NA	446 * α	NA	NA	96.9	94.4	76.9	11.7
COBALT	14.9 J	NA	NA	NA	NA	19.2 J	NA	NA	20.2	23.5	19.6	13.4
COPPER	44.3	NA	NA	NA	NA	218 * α	NA	NA	50.0	58.9	61.5	34.4
IRON	43,700	NA	NA	NA	NA	87,900	NA	NA	41,800	48,100	35,500 J	21,100 J
LEAD	12.8 J	NA	NA	NA	NA	703 J * α	NA	NA	19.5 J	60.5 J * α	38.2 J	33.5 J
MAGNESIUM	10,100	NA	NA	NA	NA	6,910	NA	NA	10,400	9,960	8,490	4,710
MANGANESE	298 J	NA	NA	NA	NA	730 J	NA	NA	624 J	644 J	365	341
MERCURY	--	NA	NA	NA	NA	0.70 J	NA	NA	0.45 J	0.68 J	0.49 J	0.19 J
MOLYBDENUM	8.1	NA	NA	NA	NA	62.0	NA	NA	39.4 J	45.6 J	42.7	26.3
NICKEL	90.0 J	NA	NA	NA	NA	464 J * α	NA	NA	84.7	84.6	78.1	38.8
POTASSIUM	11,200	NA	NA	NA	NA	1,860	NA	NA	3,040	3,160	2,620	1,650
SODIUM	11,200	NA	NA	NA	NA	1,730	NA	NA	2,460	2,450	2,360	1,870
THALLIUM	--	NA	NA	NA	NA	--	NA	NA	2.4	--	2.1	0.86
TIN	6.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TITANIUM	4,660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	114	NA	NA	NA	NA	60.0	NA	NA	78.2	105	95.5	55.3
ZINC	103	NA	NA	NA	NA	1,200 * α	NA	NA	120 J	130 J	96.8 J	69.8 J
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
ACETONE	NA	0.1 J	--	0.2 J	--	--						
SEMITIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
BENZO(A)PYRENE	NA	--	--	--	--	--	0.08 J	--	--	--	--	--
PHENANTHRENE	NA	--	--	--	--	0.06 J	--	--	--	--	--	--
PHENOL	NA	--	1	--	--	--	0.7 J	0.3 J	0.2 J	0.2 J	0.3 J	--
PYRENE	NA	--	--	--	--	0.06 J	--	--	--	--	--	--
TOTAL SVOCs	NA	--	1	--	0.1 J	0.08 J	0.7 J	0.3 J	0.2 J	0.2 J	0.3 J	--
PESTICIDES (mg/kg)												
ALDRIN	NA	NA	NA	NA	--	NA	NA	NA	0.002	0.001	--	--
DELTA-BHC	NA	NA	NA	NA	--	NA	NA	NA	0.006 J	0.003 J	0.004 J	--
PCBs (mg/kg)												
AROCLOL-1254	NA	--	--	0.1	--	--	--	--	--	0.004 J	--	--
AROCLOL-1260	NA	--	0.03	--	0.09	--	--	--	--	--	--	--
TOTAL PCBs	NA	--	0.03	0.1	0.09	--	--	--	--	0.004 J	--	--
PETROLEUM INDICATORS (mg/kg)												
MOTOR OIL RANGE	68 Y	180 Y	410 Y	1,300 Y	1,900 Y	70 Y	180 Y	--	--	--	--	--

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B388GB007 ^S	B388GB008 ^S	B390GB001	B390GB001	B390GB002	B390GB003	B390GB003					
Sample Depth (feet BGS)	10.0 - 10.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	3.0 - 4.0	4.0 - 5.0	3.0 - 4.0	5.0 - 6.0	2.0 - 3.0
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL						
PH	NA	8.3	8.0	8.3	9.9	8.6	8.4	7.4	7.5	8.3	8.4	9.8

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB003	B390GB003	B390GB004	B390GB004	B390GB004	B390GB005	B390GB005	B390GB005	B390GB006	B390GB006	B390GB007	B390GB007
Sample Depth (feet BGS)	4.0 - 5.0	11.5 - 12.0	3.0 - 4.0	5.0 - 6.0	11.0 - 12.0	2.0 - 3.0	4.0 - 5.0	11.0 - 12.0	2.0 - 3.0	4.0 - 5.0	3.0 - 4.0	8.0 - 9.0
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)												
ALUMINUM	7,650	9,900	9,240	36,900 *	22,700	928	1,080	1,110	11,300	21,100	28,500	45,200 * ^a
ANTIMONY	--	--	--	6.5 J	--	14.2 J * ^a	21.7 J * ^a	21.0 J * ^a	--	--	--	4.4 J
ARSENIC	--	8.7 J	--	9.1 J !	--	--	--	--	--	17.2 J !	17.4 J !	33.2 J !
BARIUM	115	218	134	237	136	14.9 J	15.1 J	14.5 J	94.5	87.2	81.3	202
BERYLLIUM	--	--	--	0.90 J	0.67 J	--	1.0 J	1.6 J	--	0.62 J	0.75 J	1.4 J *! ^a
CADMIUM	--	--	--	--	--	1.8 J	2,180	896 J	13,500	--	--	--
CALCIUM	2,210	2,450	1,440	44,600	2,900	582 J	76.3	73.6	42.0	3,570	2,910	6,770
CHROMIUM	12.4	19.4	17.4	494 * ^a	64.3	32,400 J	3,860 J	3,890 J	19,200 J	73.3	81.1	318 * ^a
COBALT	10.2 J	10.8 J	7.0 J	20.6	19.0	1.1 J	--	1.6 J	6.0 J	19.5	26.9	31.8
COPPER	10.5	17.9	14.9	919 * ^a	52.6	49.6	42.2	49.1	32.2	76.4	52.7	474 * ^a
IRON	16,400	22,400	18,400 J	80,600 J	32,400 J	3,860 J	3,890 J	4,470 J	30,600 J	43,500 J	100,000 J	100,000 J
LEAD	4.7	7.9	6.3 J	633 J * ^a	67.8 J * ^a	226 J * ^a	202 J * ^a	242 J * ^a	48.9 J	108 J * ^a	28.5 J	282 J * ^a
MAGNESIUM	4,200	4,440	3,030	6,730	9,440	429 J	503 J	540 J	2,590	8,930	8,780	13,600
MANGANESE	214	209	150	5,540 * ^a	208	29.4	87.0	122	244	482	687	1,600
MERCURY	--	--	--	0.46 J	0.49 J	0.27 J	1.0 J	0.60 J	0.25 J	0.66 J	0.55 J	0.75 J
MOLYBDENUM	19.3	26.2	22.3	128	37.9	3.9	3.8	4.7	21.8	33.4	46.4	139
NICKEL	21.1	20.7	13.0	638 * ^a	79.3	--	--	--	37.8	70.4	77.0	338 * ^a
POTASSIUM	1,860	2,190	1,300	5,340	3,460	--	--	282 J	982	3,050	2,770	4,360
SILVER	--	--	--	3.2 J	--	--	--	--	--	--	--	2.4 J
SODIUM	358 J	418 J	500 J	3,040	4,050	151 J	181 J	199 J	1,330	1,890	1,500	3,330
THALLIUM	--	0.42 J	0.73	--	1.7	0.40	0.44	--	0.65	0.69	2.0	2.6
VANADIUM	27.8	37.8	36.8	87.7	73.2	--	--	--	35.5	92.4	92.6	152
ZINC	50.8	59.0	38.6 J	1,730 J * ^a	119 J	801 J * ^a	812 J * ^a	919 J * ^a	131 J	152 J	91.1 J	1,220 J * ^a
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
ACETONE	--	--	--	0.3 J	0.2 J	--	--	--	--	0.2 J	0.2 J	--
BROMOMETHANE	--	--	--	--	--	--	--	--	0.005 J	--	--	--
METHYLENE CHLORIDE	--	--	--	--	0.09	--	--	--	--	--	--	--
SEMOVOLATILE ORGANIC COMPOUNDS (mg/kg)												
2,4-DIMETHYLPHENOL	--	--	--	0.08 J	--	--	--	--	--	--	--	0.1 J
2-METHYLNAPHTHALENE	--	--	--	0.06 J	--	--	--	--	--	--	--	--
4-METHYLPHENOL	--	--	--	0.2 J	--	--	--	--	--	--	--	--
ANTHRAZENE	--	--	--	0.1 J	--	--	--	--	--	--	--	--
BENZO (A) ANTHRACENE	--	--	--	--	--	0.1 J	0.3 J	--	--	--	--	--
BENZO (A) PYRENE	--	--	--	--	--	0.06 J	--	--	--	--	--	--
BENZO (B) FLUORANTHENE	--	--	--	--	--	0.1 J	0.3 J	--	--	--	--	--
BENZO (G, H, I) PERYLENE	--	--	--	--	--	0.06 J	--	--	--	--	--	--
BENZO (K) FLUORANTHENE	--	--	--	--	--	0.04 J	--	--	--	--	--	--
CHRYSENE	--	--	--	--	--	0.09 J	0.7 J	0.4 J	--	--	--	--
FLUORANTHENE	--	--	--	0.07 J	--	0.2 J	0.6 J	0.4 J	--	--	--	--
INDENO (1, 2, 3-CD) PYRENE	--	--	--	--	--	0.05 J	--	--	--	--	--	--
NAPHTHALENE	--	--	--	--	0.3 J	--	--	--	--	--	--	--
PHENANTHRENE	--	--	--	0.09 J	--	0.09 J	--	--	--	--	0.08 J	--
PHENOL	--	--	0.1 J	0.1 J	--	--	--	--	--	--	--	--
PYRENE	--	--	--	--	--	0.2 J	0.8 J	--	--	--	--	--
TOTAL SVOCs	--	0.1 J	--	0.7 J	0.3 J	1 J	3 J	0.8 J	--	--	0.08 J	0.1 J

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB003	B390GB003	B390GB004	B390GB004	B390GB004	B390GB005	B390GB005	B390GB005	B390GB006	B390GB006	B390GB007	B390GB007
Sample Depth (feet BGS)	4.0 - 5.0	11.5 - 12.0	3.0 - 4.0	5.0 - 6.0	11.0 - 12.0	2.0 - 3.0	4.0 - 5.0	11.0 - 12.0	2.0 - 3.0	4.0 - 5.0	3.0 - 4.0	8.0 - 9.0
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PESTICIDES (mg/kg)												
4,4'-DDD	--	--	--	--	0.001 J	--	--	0.006 J	--	--	--	0.002 J
4,4'-DDE	--	--	--	--	--	0.001 J	--	--	--	--	--	--
4,4'-DDT	--	--	--	--	0.001 J	--	0.006 J	--	--	--	--	0.003 J
ALDRIN	--	--	--	--	0.002	--	--	--	--	--	--	0.003
ALPHA-CHLORDANE	--	--	--	0.003	--	--	0.0006	0.0007	0.0006	--	--	--
DELTA-BHC	--	--	--	--	0.002 J	0.002 J	--	0.004 J	0.003 J	0.003 J	0.004 J	0.001 J
ENDOSULFAN II	--	--	--	--	0.002 J	--	--	--	--	--	--	0.004 J
ENDRIN	--	--	--	--	0.007	--	--	0.001 J	0.001 J	0.002	--	0.01
GAMMA-CHLORDANE	--	--	--	--	--	--	--	--	--	--	--	0.0006 J
PCBs (mg/kg)												
ACROCLOR-1254	--	--	--	--	0.1	0.01 J	--	--	0.03	--	--	0.3
ACROCLOR-1260	--	--	--	--	--	--	0.03 J	0.03 J	0.03 J	--	--	--
TOTAL PCBs	--	--	--	--	0.1	0.01 J	0.03 J	0.03 J	0.03 J	0.03	--	0.3
PETROLEUM INDICATORS (mg/kg)												
MOTOR OIL RANGE	--	--	--	--	170 Y	53 Y	35 Y	97 JY	110 JY	--	25 Y	16 Y
pH												
pH	9.4	9.3	8.6	7.6	8.6	8.1	7.8	7.9	9.6	8.6	7.5	8.4

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB007	B390GB007	B390GB007	B390GB007	B390GB008	B390GB008	B390GB008	B390GB010 ^S	B390GB010	B390GB010	B390GB011	B390GB011
Sample Depth (feet BGS)	0.0 - 0.5	3.0 - 3.5	6.0 - 6.5	11.0 - 11.5	3.0 - 4.0	5.0 - 6.0	0.0 - 0.5	5.0 - 5.5	7.0 - 7.5	9.0 - 9.5	5.0 - 5.5	7.0 - 7.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)												
ALUMINUM	8,530	NA	NA	NA	18,200	20,200	10,000	NA	NA	NA	NA	NA
ANTIMONY	36.4 J * ^a	NA	NA	NA	--	--	39.1 J * ^a	NA	0.60 J	4.3 J	0.62 J	--
ARSENIC	--	NA	NA	NA	--	8.9 J 1	7.9 J 1	18.0 1	17.8 1	3.8 J 1	5.5 J 1	15.5 1
BARIUM	281	NA	NA	NA	1,030	69.1	328	NA	NA	NA	NA	NA
BERYLLIUM	--	NA	NA	NA	0.62 J	0.63 J	0.70 J	NA	NA	NA	NA	NA
CADMUM	--	NA	NA	NA	--	--	7.7 J * ^a	2.3 J	1.2 J	--	0.82 J	0.60 J
CALCIUM	16,700	NA	NA	NA	14,200	3,220	16,400	6,400	5,820	6,680	8,210	5,670
CHROMIUM	1,660 * ^a	NA	NA	NA	54.7	64.8	812 * ^a	192 * ^a	169 * ^a	173 * ^a	171 * ^a	191 * ^a
CHROMIUM VI	NA	--	--	--	NA	NA	NA	--	NA	NA	NA	NA
COBALT	42.0	NA	NA	NA	9.9 J	17.3	36.8	--	--	--	--	--
COPPER	3,780 * ^a	NA	NA	NA	56.7	54.9	2,000 * ^a	78.9	63.4	73.0	97.1	75.0
IRON	196,000 J	NA	NA	NA	28,000 J	31,400 J	132,000 J	55,800	58,000	52,600	59,900	58,800
LEAD	2,340 J * ^a	NA	NA	NA	8.4 J	53.2 J	1,070 J * ^a	35.8	17.5	82.9 * ^a	142 * ^a	28.9
MAGNESIUM	5,410	NA	NA	NA	7,710	7,140	8,460	NA	NA	NA	NA	NA
MANGANESE	3,130 * ^a	NA	NA	NA	184	610	5,510 * ^a	433	554	352	1,480	611
MERCURY	0.32 J	NA	NA	NA	0.33 J	0.66 J	0.22 J	--	--	1.8 J	--	--
MOLYBDENUM	475	NA	NA	NA	30.9	36.0	267	NA	NA	NA	NA	NA
NICKEL	1,440 * ^a	NA	NA	NA	37.1	69.8	1,140 * ^a	110	101	115	125	103
POTASSIUM	877 J	NA	NA	NA	3,650	2,270	657 J	14,500	14,300	14,900	13,700	13,900
SILVER	4.9 J	NA	NA	NA	0.76 J	--	11.3 J	0.24 J	0.95 J	--	3.2 J	0.50 J
SODIUM	923 J	NA	NA	NA	7,640	1,180	804 J	NA	NA	NA	NA	NA
THALLIUM	1.5	NA	NA	NA	1.6	1.0	1.2 J	NA	NA	NA	NA	NA
TIN	NA	NA	NA	NA	NA	NA	NA	12.3	6.5 J	12.7	14.7	11.2
TITANIUM	NA	NA	NA	NA	NA	NA	NA	5,250	5,320	5,240	4,770	5,290
VANADIUM	44.5	NA	NA	NA	NA	64.0	78.0	42.8	176	190 *	195 *	201 *
ZINC	11,700 J * ^a	NA	NA	NA	66.0 J	154 J	4,320 J * ^a	131	131	167	158	113
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
ACETONE	NA	NA	NA	NA	NA	0.1 J	0.5 J	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	0.07 J	--	NA	NA	NA	NA	NA
SEMITVOLATILE ORGANIC COMPOUNDS (mg/kg)												
2-METHYLNAPHTHALENE	0.8 J	NA	NA	NA	NA	--	--	NA	NA	NA	NA	NA
ACENAPHTHENE	0.3 J	NA	NA	NA	NA	--	--	NA	NA	NA	NA	NA
ANTHRACENE	--	NA	NA	NA	NA	--	--	0.6 J	NA	NA	NA	NA
BENZO (A) ANTHRACENE	--	NA	NA	NA	0.06 J	--	--	NA	NA	NA	NA	NA
BENZO (A) PYRENE	--	NA	NA	NA	0.06 J	--	--	NA	NA	NA	NA	NA
BENZO (B) FLUORANTHENE	--	NA	NA	NA	0.07 J	--	--	NA	NA	NA	NA	NA
BIS (2-ETHYLHEXYL) PHTHALATE	10 J	NA	NA	NA	--	--	--	NA	NA	NA	NA	NA
CHRYSENE	--	NA	NA	NA	0.06 J	--	--	NA	NA	NA	NA	NA
DIBENZOFURAN	0.3 J	NA	NA	NA	NA	--	--	NA	NA	NA	NA	NA
FLUORANTHENE	0.5 J	NA	NA	NA	0.1 J	--	--	NA	NA	NA	NA	NA
FLUORENE	0.2 J	NA	NA	NA	NA	--	--	NA	NA	NA	NA	NA
NAPHTHALENE	0.3 J	NA	NA	NA	NA	--	--	NA	NA	NA	NA	NA
PHENANTHRENE	0.8 J	NA	NA	NA	0.06 J	--	0.5 J	NA	NA	NA	NA	NA
PHENOL	1 J	NA	NA	NA	0.1 J	0.1 J	0.4 J	NA	NA	NA	NA	NA
PYRENE	0.4 J	NA	NA	NA	0.1 J	0.07 J	--	NA	NA	NA	NA	NA

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB007	B390GB007	B390GB007	B390GB007	B390GB008	B390GB008	B390GB008	B390GB010 ^S	B390GB010	B390GB010	B390GB011	B390GB011
Sample Depth (feet BGS)	0.0 - 0.5	3.0 - 3.5	6.0 - 6.5	11.0 - 11.5	3.0 - 4.0	5.0 - 6.0	0.0 - 0.5	5.0 - 5.5	7.0 - 7.5	9.0 - 9.5	5.0 - 5.5	7.0 - 7.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SEMOVOLATILE ORGANIC COMPOUNDS (mg/kg)												
TOTAL SVOCs	14 J	NA	NA	NA	0.6 J	0.2 J	2 J	NA	NA	NA	NA	NA
PESTICIDES (mg/kg)												
4,4'-DDD	0.01 J	NA	NA	NA	--	--	0.009 J	NA	NA	NA	NA	NA
4,4'-DDT	0.02 J	NA	NA	NA	--	--	--	NA	NA	NA	NA	NA
ALDRIN	0.04 J	NA	NA	NA	--	--	0.02 J	NA	NA	NA	NA	NA
ENDOSULFAN II	0.03 J	NA	NA	NA	--	--	0.06 J	NA	NA	NA	NA	NA
ENDRIN	0.09	NA	NA	NA	--	--	0.2 J	NA	NA	NA	NA	NA
GAMMA-CHLORDANE	0.005 J	NA	NA	NA	--	--	0.009 J	NA	NA	NA	NA	NA
PCBs (mg/kg)												
AROCLOLOR-1254	2 I	NA	NA	NA	--	0.006 J	4 I	NA	NA	NA	NA	NA
TOTAL PCBs	2	NA	NA	NA	--	0.006 J	4	NA	NA	NA	NA	NA
PETROLEUM INDICATORS (mg/kg)												
MOTOR OIL RANGE	1,800 JY	NA	NA	NA	--	230 Y	35 Y	NA	NA	NA	NA	NA
PH												
PH	8.5	NA	NA	NA	8.7	8.4	8.5	NA	NA	NA	NA	NA

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB011	B390GB012	B390GB012	B390GB012 ^S	B390GB013 ^S	B390GB013	B390GB013 ^S	B390GB013 ^S	B390GB013 ^S	B390GB013 ^S	B390GB014 ^S	B390GB014 ^S
Sample Depth (feet BGS)	9.0 - 9.5	5.0 - 5.5	7.0 - 7.5	9.0 - 9.5	2.0 - 2.5	3.5 - 4.0	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	3.0 - 3.5	5.0 - 5.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)												
ALUMINUM	NA	NA	NA	NA	NA	10,000	NA	NA	NA	30,700	NA	NA
ANTIMONY	0.13 J 20.3 I	1.5 J 12.3 I	1.5 J 14.9 I	1.4 J 11.1 I	4.0 J 3.5 J I	--	0.97 J 0.52 J	2.5 J 8.8 J I	5.1 J 10.5 I	1.3 J 16.5 J I	30.9 *α --	--
ARSENIC	NA	NA	NA	NA	NA	123	NA	NA	NA	71.7	NA	11.4 I
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	NA	NA	NA	--	NA	NA	NA	0.41 J	NA	NA
CADMIUM	--	1.7 J 9,360	0.83 J 8,630	--	--	--	2.7 J 7,510	2.5 J 10,100	0.95 J 6,120	--	33.9 *α 31,000	--
CALCIUM	5,950	9,360	8,630	5,960	23,700	29,800	7,510	111	175 *α	5,850 128	7,080	1,510 *α
CHROMIUM	193 *α	160 *	172 *α	172 *α	60.6	38.1	111	112	175 *α	175 *α	195 *α	195 *α
CHROMIUM VI	NA	NA	NA	--	NA	NA	NA	--	NA	NA	NA	NA
COBALT	--	--	--	--	9.9 J 21.0	20.6 44.4 J	--	--	--	21.3 59.5 J	--	--
COPPER	60.8	73.2	60.6	66.7	56,000	23,100	16.7 20,500	21.4 19,000	57.6 22,400	59.5 J 53,500	7,000 *α 47,000	66.1 130,000
IRON	55,700	49,900	53,100	56,000	NA	NA	NA	NA	NA	NA	NA	54,200
LEAD	8.8 J	74.6 *α	27.4	17.9	10.8	136 J *α	17.4	23.8	42.0	19.5 J	980 *α	37.9
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	752	1,170	451	806	432	631	654	991	369	1,040	1,980 *	490
MERCURY	--	--	2.3 J *	0.77 J	4.1 J *	0.19	--	6.0 J *	--	0.51	--	--
NICKEL	97.3	107	101	104	8.4 J	53.4	21.4	39.3	119	96.3	1,400 *α	116
POTASSIUM	13,200	15,200	14,700	14,200	23,400	1,240 J	17,000	17,100	15,000	8,500 J	8,160	14,100
SILVER	0.53 J	--	--	--	3.2 J	--	--	0.37 J	1.4 J	--	--	--
SODIUM	NA	NA	NA	NA	NA	659 J	NA	NA	NA	5,150	NA	NA
TIN	13.0	11.9	11.6	6.4 J	9.5 J	NA	11.0	11.9	10.0	8.0 J	48.6	5.8 J
TITANIUM	5,250	4,860	4,870	5,470	2,650	NA	3,960	3,980	5,270	5,140	4,550	5,340
VANADIUM	177	180	174	210 *	60.5	40.8	66.9	84.8	188	159	73.8	178
ZINC	105	119	123	106	71.3	118	40.3	67.0	144	94.0	6,600 *α	129
SEMOVOLATILE ORGANIC COMPOUNDS (mg/kg)												
BENZO(A)ANTHRACENE	NA	NA	NA	NA	--	NA	0.02 J	--	--	--	0.2 J	--
BENZO(A)PYRENE	NA	NA	NA	NA	--	NA	0.04 J	--	--	0.1 J	--	--
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	--	NA	--	--	--	--	0.3 J	--
CHRYSENE	NA	NA	NA	NA	--	NA	0.02 J	--	--	--	--	--
FLUORANTHENE	NA	NA	NA	NA	--	NA	0.03 J	0.01 J	--	--	0.5 J	--
PHENANTHRENE	NA	NA	NA	NA	0.03 J	NA	0.01 J	0.02 J	0.01 J	0.01 J	0.2 J	--
PHENOL	NA	NA	NA	NA	0.3 J	NA	0.3 J	0.3 J	0.5 J	0.4 J	--	--
PYRENE	NA	NA	NA	NA	0.03 J	NA	0.04 J	0.02 J	0.02 J	0.02 J	0.3 J	--
TOTAL SVOCs	NA	NA	NA	NA	0.4 J	NA	0.4 J	0.4 J	0.5 J	0.5 J	1 J	--
PESTICIDES (mg/kg)												
ALDRIN	NA	NA	NA	NA	0.005	NA	--	--	--	--	--	--
ENDRIN	NA	NA	NA	NA	0.004 J	NA	--	--	--	--	--	--
ENDRIN KETONE	NA	NA	NA	NA	0.005 J	NA	--	--	--	--	--	--
HEPTACHLOR	NA	NA	NA	NA	0.002	NA	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	NA	NA	NA	NA	0.001 J	NA	--	--	--	--	--	--
PCBs	NA	NA	NA	NA	--	NA	--	--	--	--	--	--
ORGANOTINS	NA	NA	NA	NA	--	NA	NA	NA	NA	NA	NA	NA

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB011	B390GB012	B390GB012	B390GB012 S	B390GB013 S	B390GB013	B390GB013 S	B390GB013 S	B390GB013 S	B390GB013 S	B390GB014 S	B390GB014 S	B390GB014 S
Sample Depth (feet BGS)	9.0 - 9.5	5.0 - 5.5	7.0 - 7.5	9.0 - 9.5	2.0 - 2.5	3.5 - 4.0	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	3.0 - 3.5	5.0 - 5.5	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PETROLEUM INDICATORS (mg/kg)													
DIESEL RANGE MOTOR OIL RANGE	NA NA	NA NA	NA NA	NA NA	130 Y 460 Y	NA NA	5 Y 67 Y	110 Y 400 Y	25 Y 180 Y	6 Y 66 Y	590 Y 3,400 Y	8 Y 54 Y	
PH													
PH	NA	NA	NA	NA	NA	8.4	8.0	7.9	7.4	7.5	7.7	9.0	7.3

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB016 S	B390GB016 S	B390GB016 S	B390GB016 S	B390GB017	B390GB017 S	B390GB017 S	B390GB017 S	B390GB017 S	B390GB017	B390SS001
Sample Depth (feet BGS)	7.0 - 7.5	9.0 - 9.5	11.0 - 11.5	13.0 - 13.5	0.5 - 1.0	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.0 - 0.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)											
ALUMINUM	NA	NA	NA	NA	NA	17,400	NA	NA	NA	NA	8,120
ANTIMONY	--	--	--	--	NA	6.5 J	3.0 J	3.0 J	1.7 J	--	13.4 J * α
ARSENIC	13.4 1	8.4 J 1	14.8 1	11.2 1	NA	17.9 J 1	2.8 J 1	8.8 J 1	7.5 J 1	16.2 1	4.3 1
BARIUM	NA	NA	NA	NA	NA	225	NA	NA	NA	NA	258
BERYLLIUM	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	2.9 *1 α
CADMUM	--	--	--	--	NA	1.3 J	1.0 J	--	--	--	6.0 * α
CALCIUM	7,170	7,920	6,710	5,800	NA	27,100	9,130	5,820	6,970	6,540	22,100
CHROMIUM	189 * α	99.1	107	111	NA	61.2	150 *	94.0	167 * α	180 * α	522 * α
CHROMIUM VI	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	NA
COBALT	--	--	--	--	NA	59.3 J	--	--	--	--	29.9
COPPER	46.8	31.8	40.7	28.3	NA	113 J	56.9	3.0 J	83.1	61.8	2,640 * α
IRON	51,700	25,500	43,500	30,000	NA	82,100	37,300	28,900	53,400	53,800	165,000
LEAD	21.6	33.3	19.1	9.4 J	NA	384 J * α	69.2 * α	25.0	41.1	10.5	1,340 J *1 α
MAGNESIUM	NA	NA	NA	NA	NA	3,200 J	NA	NA	NA	NA	5,480
MANGANESE	778	148	418	156	NA	997	1,560	410	396	740	3,960 J * α
MERCURY	--	--	--	--	NA	2.8 J *	--	--	--	0.32 J	2.8 J *
MOLYBDENUM	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	246 J
NICKEL	105	73.9	128	145 *	NA	92.8	75.0	28.3	124	108	1,190 * α
POTASSIUM	14,000	11,000	12,000	14,200	NA	7,640 J	15,600	16,100	16,100	13,700	929 J
SILVER	--	--	--	--	NA	4.3 J	--	--	0.07 J	1.5 J	--
SODIUM	NA	NA	NA	NA	NA	2,890 J	NA	NA	NA	NA	9,910
TIN	10.1	4.1 J	7.6 J	10.7	NA	11.1	18.0	14.9	16.2	10.8	NA
TITANIUM	5,190	2,740	3,440	4,010	NA	4,990	4,340	3,680	5,030	5,520	NA
VANADIUM	190	158	169	109	NA	67.4	110	84.3	175	184	37.6
ZINC	125	61.7	116	51.3	NA	786 * α	118	71.2	164	90.8	6,050 J * α
SEMITVOLATILE ORGANIC COMPOUNDS (mg/kg)											
BENZO(A) ANTHRACENE	--	--	--	--	--	--	0.03 J	0.04 J	NA	NA	--
BENZO(A) PYRENE	0.08 J	--	--	--	--	--	0.04 J	0.05 J	NA	NA	--
BENZO(B) FLUORANTHENE	--	--	--	--	--	--	0.06 J	0.06 J	NA	NA	--
BENZO(G, H, I) PERYLLENE	--	--	--	--	--	--	0.02 J	0.02 J	NA	NA	--
CHRYSENE	--	--	--	--	--	--	0.03 J	0.03 J	NA	NA	--
FLUORANTHENE	--	--	--	--	--	0.01 J	0.05 J	0.07 J	NA	NA	--
INDENO(1,2,3-CD) PYRENE	--	--	--	--	--	--	0.02 J	0.02 J	NA	NA	--
PHENANTHRENE	--	--	--	--	--	0.02 J	0.02 J	0.03 J	NA	NA	0.4 J
PHENOL	--	--	--	0.1 J	--	0.4	0.2 J	2	NA	NA	--
PYRENE	--	--	--	--	--	0.01 J	0.06 J	0.07 J	NA	NA	--
TOTAL SVOCs	0.08 J	--	--	0.1 J	--	0.5 J	0.5 J	2 J	NA	NA	0.4 J
PESTICIDES (mg/kg)											
4,4'-DDT	--	--	--	--	--	--	--	--	NA	NA	0.04 J
DIELDRIN	--	--	--	--	--	--	--	--	NA	NA	0.09 J
ENDRIN KETONE	--	--	--	--	--	--	--	--	NA	NA	0.02 J
GAMMA-CHLORDANE	--	--	--	--	--	--	--	--	NA	NA	0.01 J
HEPTACHLOR EPOXIDE	--	--	--	--	--	--	--	--	NA	NA	0.02

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB014 S	B390GB014 S	B390GB014 S	B390GB014 S	B390GB015 S	B390GB016 S	B390GB016 S	B390GB016 S					
Sample Depth (feet BGS)	7.0 - 7.5	9.0 - 9.5	11.0 - 11.5	13.0 - 13.5	3.0 - 3.5	5.0 - 5.5	7.0 - 7.5	9.0 - 9.5	11.0 - 11.5	13.0 - 13.5	3.0 - 3.5	5.0 - 5.5	
Matrix	SOIL												
METALS (mg/kg)													
ALUMINUM	NA	NA	NA	NA	NA	NA	32,100	NA	NA	NA	7,060	NA	NA
ANTIMONY	--	--	12.8 I	7.8 J I	--	46.8 *a	--	5.1 J	--	--	31.4 J *a	5.7 J	5.7 J
ARSENIC	--	NA	NA	NA	--	15.4 I	15.2 I	14.8 I	16.6 I	NA	17.7 I	14.3 I	NA
BARIUM	--	NA	NA	NA	NA	NA	92.2	NA	NA	NA	908	NA	NA
CADMIUM	--	6,460	6,360	8,860	--	15.1 *a	--	6,170	--	7,290	5.3 J *	11,000	--
CALCIUM	143 *	143 *	186 *a	185 *a	6,110	25,900	6,850	5,780	7,170	7,170	1,310 *a	6,570	6,570
CHROMIUM	NA	NA	NA	NA	101	2,470 *a	177 *a	131	124	118	1,330 *a	186 *a	NA
CHROMIUM VI	--	NA	--	--	NA								
COBALT	--	52.3	60.9	328 *a	--	5,000 *a	68.3	21.8	--	--	33.0	39.3 J	--
COPPER	24,100	52,600	37,600	37,900	25.2	216,000	54,800	71.0	70.2	31.1	1,310 *a	1,310 *a	66.4
IRON	23.9	17.1	60.6 *a	60.6 *a	37,900	1,570 *1a	29.3	51,900	57,000	33,200	31,800	153,000	55,900
LEAD	--	NA	NA	NA	24.5	NA	35.9 J	17.6	33.7	14.5	392 J *a	392 J *a	25.2
MAGNESIUM	NA	NA	NA	NA	NA	NA	9,570	NA	NA	NA	6,430	NA	NA
MANGANESE	435	645	568	172	2,810 *a	1,370	1,600 *	911	207	189	2,570 *a	1,160.	1,160.
MERCURY	--	--	--	--	--	--	0.53	--	--	--	0.32	--	--
MOLYBDENUM	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	92.5	NA	NA
NICKEL	36.7	92.1	122	83.7	2,930 *a	133 *	84.7	108	70.2	107	1,760 *a	112	112
POTASSIUM	16,400	13,700	18,400	11,900	6,370	14,400	9,520 J	13,800	13,500	13,700	8,850 J	8,850 J	14,700
SELENIUM	NA	NA	NA	NA	NA	NA	2.1 J	NA	NA	NA	3.8 J	NA	NA
SILVER	--	--	--	--	--	--	3.2 J	--	--	--	--	--	--
SODIUM	NA	NA	NA	NA	NA	NA	2,160	NA	NA	NA	861 J	NA	NA
TIN	11.7	7.1 J	13.6	3.7 J	67.3	9.8 J	12.7	5.4 J	6.8 J	5.6 J	29.6	5.2 J	5.2 J
TITANIUM	4,060	5,210	3,280	2,850	6,970	5,210	4,510	5,360	3,170	3,300	4,100	5,460	5,460
VANADIUM	104	196 *	73.7	120	73.1	176	132	202 *	138	152	50.4 J	200 *	200 *
ZINC	102	105	422 *a	47.2	21,100 *a	119	181	101	81.2	72.8	2,130 *a	116	116
VOLATILE ORGANIC COMPOUNDS	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA	NA
SEMITOLATILE ORGANIC COMPOUNDS (mg/kg)													
4-METHYLPHENOL	--	--	--	0.6 J	--	--	--	--	--	--	--	--	--
BENZO(A) PYRENE	--	0.09 J	--	--	--	--	--	0.1 J	0.07 J	--	--	--	--
BENZO(B) FLUORANTHENE	--	--	--	--	0.2 J	--	--	--	--	--	--	--	--
BENZO(G,H,I) PERYLENE	--	--	--	0.2 J	--	--	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL) PHTHALATE	--	--	--	--	7	--	--	--	--	--	3 J	--	--
FLUORANTHENE	--	--	--	--	0.2 J	--	--	--	--	--	--	--	--
PHENOL	--	--	--	0.2 J	--	--	--	--	--	--	--	--	--
TOTAL SVOCs	--	0.09 J	--	1 J	7 J	--	--	0.1 J	0.07 J	--	3 J	--	--
PESTICIDES (mg/kg)													
4,4'-DDT	--	--	--	0.009	--	0.7	--	--	--	--	0.9 J	--	--
PCBs (mg/kg)													
AROCLOR-1254	--	--	--	--	5 1	--	--	--	--	--	5 J I	--	--
TOTAL PCBs	--	--	--	--	5	--	--	--	--	--	5 J	--	--
PETROLEUM INDICATORS (mg/kg)													
DIESEL RANGE	91 Y	4 Y	55 Y	54 Y	300 Y	6 Y	7 Y	5 Y	13 Y	43 YY	190 Y	4 Y	

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB014 ^S	B390GB014 ^S	B390GB014 ^S	B390GB014 ^S	B390GB015 ^S	B390GB016 ^S	B390GB016 ^S					
Sample Depth (feet BGS)	7.0 - 7.5	9.0 - 9.5	11.0 - 11.5	13.0 - 13.5	3.0 - 3.5	5.0 - 5.5	7.0 - 7.5	9.0 - 9.5	11.0 - 11.5	13.0 - 13.5	3.0 - 3.5	5.0 - 5.5
Matrix	SOIL											
PETROLEUM INDICATORS (mg/kg)												
MOTOR OIL RANGE	470 Y	45 Y	300 Y	410 Y	1,600 Y	38 Y	31 YY	28 Y	270 Y	450 YY	1,300 Y	37 Y
pH												
pH	7.4	7.2	7.1	7.3	7.9	7.7	7.0	7.4	7.6	7.8	9.1	7.6

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB016 ^s	B390GB016 ^s	B390GB016 ^s	B390GB016 ^s	B390GB017	B390GB017 ^s	B390GB017 ^s	B390GB017 ^s	B390GB017 ^s	B390GB017	B390SS001
Sample Depth (feet BGS)	7.0 - 7.5	9.0 - 9.5	11.0 - 11.5	13.0 - 13.5	0.5 - 1.0	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.0 - 0.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PCBs (mg/kg)											
AROCLOLOR-1254	--	--	--	--	--	--	--	--	NA	NA	2 J!
AROCLOLOR-1260	--	--	--	--	--	--	--	--	NA	NA	0.5 !
TOTAL PCBs	--	--	--	--	--	--	--	--	NA	NA	3 J
PETROLEUM INDICATORS (mg/kg)											
DIESEL RANGE	5 Y	120 Y	22 Y	--	NA	110 Y	8 Y	25 Y	5 Y	6 Y	--
MOTOR OIL RANGE	23 Y	1,700 Y	190 Y	15 Y	NA	1,200 Y	79 Y	220 Y	61 Y	40 Y	550 Y
PH											
PH	7.6	9.1	7.7	7.7	8.1	7.8	7.9	7.8	NA	NA	7.9

Notes: -- = Not detected or rejected, J = Estimated value, NA = Not analyzed, Y = other fuel; chromatogram does not match quantitated fuel

mg/kg = Milligrams per kilogram, BGS = Below ground surface, PCB = Polychlorinated biphenyls

Analytical results for the site indicate that chromium VI was not detected; for the purposes of this RI, chromium is assumed to be chromium III.

Inorganic results less than 10 are reported to two significant figures, and results greater than 10 are reported to three significant figures.

Organic results less than 10 are reported to one significant figure, and results greater than 10 are reported to two significant figures.

Concentrations shown in bold type are greater than preliminary remediation goal (PRG) for residential use or the Group II/III screening criteria for lead, PCBs, and TPH.

* = Detected metals concentration greater than the ambient concentration (95th percentile).

! = Detected concentrations greater than preliminary remediation goals (PRG) for industrial use.

α = Detected metals concentration greater than the ambient concentration (99th percentile).

Diesel range includes hydrocarbons quantified as diesel and diesel-range unknowns. Gasoline range includes hydrocarbons quantified as gasoline and gasoline-range unknowns.

Motor oil range includes hydrocarbons quantified as motor oil and motor-oil-range unknowns.

Only constituents that were detected in at least one sample are listed.

s - The sample was split for analysis by both on-site and off-site laboratories. When both laboratories analyzed the sample for the same constituent, the average of the two results is shown; if the constituent was not detected in one of the two analyses, only the detected result is shown.

TABLE 3
BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR AQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B386GB001	B386GB002	B386GB003	B386GB004	B386GB005	B386GB006	B386GB007	B386GB008	B386GB009	B386GB010	B388GB001	B388GB002	
Sample Date	09/23/97	09/24/97	09/24/97	04/14/98	04/14/98	04/16/98	04/16/98	04/16/98	04/14/98	04/14/98	09/29/97	10/01/97	
Matrix	WATER												
LOW LEVEL VOLATILE ORGANIC COMPOUNDS (µg/L)													
1,1,2,2-TETRACHLOROETHANE	81 α	--	--	--	--	--	--	--	--	--	--	--	
1,1-DICHLOROETHANE	--	--	--	--	--	--	--	--	36 J α	--	--	--	
4-METHYL-2-PENTANONE	--	--	--	--	--	2	1 J	4	--	--	--	--	
BENZENE	--	--	--	--	--	--	--	--	--	--	--	0.7	
CARBON DISULFIDE	--	--	--	--	--	--	0.4 J	--	--	--	--	--	
ETHYLBENZENE	--	--	--	130	--	--	0.5 J	--	--	--	--	--	
TOLUENE	--	--	--	--	--	--	--	--	--	--	--	4	
XYLENE (TOTAL)	35 J	--	--	830	--	--	4	2 J	--	--	--	1	
SEMOVOLATILE ORGANIC COMPOUNDS (µg/L)													
BIS(2-ETHYLHEXYL)PHTHALATE	--	--	--	--	--	--	--	NA	NA	--	--	470 αβ	
FLUORENE	--	--	--	--	--	1 J	--	NA	NA	--	--	--	
PHENANTHRENE	--	--	--	--	--	1 J	--	NA	NA	--	--	--	
PHENOL	6 J	--	--	--	3 J	--	--	NA	NA	19 J	5 J	--	
TOTAL SVOCs	6 J	--	--	--	3 J	2 J	--	--	NA	NA	19 J	5 J	470
PETROLEUM INDICATORS (mg/L)													
DIESEL RANGE	27 J αβ	0.2 J	NA	--	4 Y αβ	0.1 Y	0.9 Y	0.8 Y	2 Y αβ	0.9 Y	--	NA	
GASOLINE RANGE	--	--	2 J αβ	NA	--	--							
MOTOR OIL RANGE	40 J αβ	0.2 J	NA	--	--	--	--	--	--	--	--	NA	

Notes to table on page T-2.

TABLE 3 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR AQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	B388GB004	B388GB006	B390GB001	B390GB002	B390GB003	B390GB004	B390GB005	B390GB006	B390GB007	B390GB007	B390GB008	B390GB009
Sample Date	04/13/98	04/13/98	09/29/97	09/30/97	10/08/97	09/30/97	09/29/97	09/29/97	09/29/97	09/29/97	09/29/97	04/13/98
Matrix	WATER											
LOW LEVEL VOLATILE ORGANIC COMPOUNDS (µg/L)												
ACETONE	--	--	--	--	--	--	--	--	32	NA	--	NA
CARBON DISULFIDE	--	0.4 J	--	--	--	--	--	--	--	NA	--	NA
TETRACHLOROETHENE	0.3 J	--	--	--	--	--	--	--	--	NA	--	NA
TOLUENE	--	--	--	0.6 J	--	1	--	--	--	NA	--	NA
XYLENE (TOTAL)	--	0.5 J	--	--	--	1	--	--	--	NA	--	NA
SEMITOLVATILE ORGANIC COMPOUNDS (µg/L)												
2,4-DIMETHYLPHENOL	NA	1,200	NA	--	--	--	--	--	NA	74	--	--
2,4-DINITROTOLUENE	NA	--	NA	1 J	--	--	--	--	NA	--	--	--
2-METHYLNAPHTHALENE	NA	--	NA	--	2 J	25	--	--	NA	--	--	--
2-METHYLPHENOL	NA	5 J	NA	--	--	--	--	--	NA	--	--	--
4-METHYLPHENOL	NA	6 J	NA	--	--	--	--	--	NA	13 J	--	--
ACENAPHTHENE	NA	--	NA	--	4 J	43	5 J	--	NA	--	--	--
ANTHRACENE	NA	--	NA	--	--	1 J	--	--	NA	--	--	--
BENZO (A) ANTHRACENE	NA	--	NA	--	--	--	2 J	--	NA	--	--	--
BENZO (A) PYRENE	NA	--	NA	2 J α	--	--	--	--	NA	--	--	--
BENZO (B) FLUORANTHENE	NA	--	NA	2 J	--	--	--	--	NA	--	--	--
BENZO (G, H, I) PERYLENE	NA	--	NA	4 J	--	--	--	--	NA	--	--	--
BENZO (K) FLUORANTHENE	NA	--	NA	2 J	--	--	--	--	NA	--	--	--
BIS (2-ETHYLHEXYL) PHTHALATE	NA	--	NA	540 J αβ	--	--	--	--	NA	--	--	--
CARBAZOLE	NA	--	NA	--	--	4 J	--	--	NA	--	--	--
DIBENZ (A, H) ANTHRACENE	NA	--	NA	7 J	--	--	--	--	NA	--	--	--
DIBENZOFURAN	NA	--	NA	--	1 J	21	4 J	--	NA	--	--	--
FLUORANTHENE	NA	--	NA	--	--	2 J	1 J	--	NA	--	--	--
FLUORENE	NA	--	NA	--	1 J	21	5 J	--	NA	--	--	--
INDENO (1,2,3-CD) PYRENE	NA	--	NA	4 J	--	--	--	--	NA	--	--	--
NAPHTHALENE	NA	--	NA	2 J	2 J	3 J	2 J	--	NA	--	--	--
PHENANTHRENE	NA	--	NA	--	--	12 β	--	--	NA	--	--	--
PHENOL	NA	--	NA	--	--	--	16	--	NA	--	--	--
PYRENE	NA	--	NA	--	--	1 J	--	--	NA	--	--	--
TOTAL SVOCs	NA	1,200 J	NA	560 J	10 J	130 J	35 J	--	NA	87 J	--	--
PETROLEUM INDICATORS (mg/L)												
DIESEL RANGE	--	--	57 J αβ	NA	--	--	0.4 Y	0.1 Y	NA	NA	--	0.3 Y
MOTOR OIL RANGE	--	--	--	NA	--	--	--	0.3 Y	NA	NA	1 Y	--

Notes to table on page T-2.

TABLE 3 (Continued)
BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR AQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B390GB010	B390GB013	B390GB017
Sample Date	04/16/98	04/16/98	04/17/98
Matrix	WATER	WATER	WATER
LOW LEVEL VOLATILE ORGANIC COMPOUNDS (µg/L)			
1,1-DICHLOROETHANE	--	0.6 J	--
2-HEXANONE	--	0.5 J	--
BROMOFORM	--	--	0.6 J
XYLENE (TOTAL)	--	1 J	--
SEMITVOLATILE ORGANIC COMPOUNDS (µg/L)			
ACENAPHTHENE	4 J	--	--
TOTAL SVOCs	4 J	--	--
PETROLEUM INDICATORS (mg/L)			
DIESEL RANGE	0.2 Y	0.2 Y	--

Notes: -- = Not detected or rejected, J = Estimated value, NA = Not analyzed, Y = other fuel; chromatogram does not match quantitated fuel

µg/L = Micrograms per liter, mg/L = Milligram per liter, BGS = Below ground surface

Organic results less than 10 are reported to one significant figure, and results greater than 10 are reported to two significant figures.

* = Concentrations greater than the Tetra Tech EMI screening criteria for explosives, herbicides, TPH extractables, and TPH purgeables.

α = Concentrations greater than the human health screening criteria.

§ = Concentrations greater than the ecological screening criteria.

Diesel range includes hydrocarbons quantified as diesel and diesel-range unknowns. Gasoline range includes hydrocarbons quantified as gasoline and gasoline-range unknowns.

Motor oil range includes hydrocarbons quantified as motor oil and motor-oil-range unknowns.

Only constituents that were detected in at least one sample are listed.

BUILDINGS 386, 388, AND 390 PHASE I/II RI SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	21-SB01IT	21-SB01IT	21-SB02IT	21-SB02IT	21GB001	21GB001	21GB001 ^S	21GB001	21GB002	21GB002	21GB002 ^S	21GB002
Sample Depth (feet BGS)	2.5 - 3.0	4.0 - 4.5	2.0 - 2.5	4.0 - 4.5	0.8 - 1.5	2.5 - 3.0	4.8 - 6.0	8.5 - 9.0	1.0 - 1.5	2.5 - 3.0	4.8 - 6.0	8.5 - 9.0
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)												
ALUMINUM	NA	NA	NA	NA	NA	NA	45,000 J * ^a	NA	NA	NA	37,100 J *	NA
ARSENIC	NA	NA	NA	NA	NA	NA	5.5 J !	NA	NA	NA	--	NA
BARIUM	NA	NA	NA	NA	NA	NA	251	NA	NA	NA	229	NA
BERYLLIUM	NA	NA	NA	NA	NA	NA	2.5 *!a	NA	NA	NA	2.5 *!a	NA
CADMIUM	NA	NA	NA	NA	NA	4.8 J	--	--	7.1 J * ^a	--	--	--
CALCIUM	NA	NA	NA	NA	NA	60,400 J	8,810 J	5,940	153,000 J	7,630 J	5,940	40,200 J
CHROMIUM	NA	NA	NA	NA	NA	135 J *	149 J *	87.5	137 J	165 J * ^a	71.9	160 J * ^a
COPPER	NA	NA	NA	NA	NA	250 * ^a	56 9	25.0	32.4	454 * ^a	63.3	32.0
IRON	NA	NA	NA	NA	NA	50,500	45,400	39,300	37,400	59,400	50,300	35,600
LEAD	272 * ^a	204 * ^a	193 * ^a	947 * ^a	1,640 *!a	49.1	49.1 J	--	--	1,580 * ^a	65.9 * ^a	8.3 J
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	7,970	NA	NA	NA	7,380
MANGANESE	NA	NA	NA	NA	NA	469	356	411	833	NA	382	405
NICKEL	NA	NA	NA	NA	NA	84.6	80.1	78.5	94.5	92.1	89.1	78.5
POTASSIUM	NA	NA	NA	NA	NA	10,600 J	12,600 J	2,410	6,230 J	10,900 J	13,200 J	1,780
SILVER	NA	NA	NA	NA	NA	6 2 J	--	--	--	--	--	--
SODIUM	NA	NA	NA	NA	NA	NA	NA	4,560	NA	NA	4,410	NA
TIN	NA	NA	NA	NA	NA	40.3	11.2	10.7	15 0	38.3	12.3	14 2
TITANIUM	NA	NA	NA	NA	NA	4,030	4,500	4,450	3,590	4,170	4,610	4,400
VANADIUM	NA	NA	NA	NA	NA	136 J	165 J	93.1	92 7 J	125 J	164 J	82.6
ZINC	NA	NA	NA	NA	NA	2,020 * ^a	125	63 3	59.4	3,390 * ^a	130	57.8
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
ACETONE	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	0.09	NA
CARBON DISULFIDE	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	0.005 J	NA
ETHYLBENZENE	--	30	--	--	--	--	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA	0.01 J	NA	NA	NA	0.004 J	NA
XYLENE (TOTAL)	--	47	--	--	--	--	--	--	--	--	--	--
SEMOVOLATILE ORGANIC COMPOUNDS	NA	NA	NA	NA	NA	NA	--	NA	NA	NA	--	NA
PESTICIDES	--	--	--	--	NA	NA	--	NA	NA	NA	--	NA
PCBs (mg/kg)												
AROCLOL-1260	--	--	0.2	0.2	--	--	--	--	--	--	--	--
TOTAL PCBs	--	--	0.2	0.2	--	--	--	--	--	--	--	--
PETROLEUM INDICATORS (mg/kg)												
DIESEL RANGE	46	13,000	55	31	--	--	--	--	--	--	--	--
GASOLINE RANGE	--	340	--	1	--	--	--	--	--	--	--	--
PH												
PH	NA	NA	NA	NA	NA	NA	8.6	NA	NA	NA	8.9	NA

Notes to table on page T-3.

BUILDINGS 386, 388, AND 390 PHASE I/II RI SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	21GB003	21GB003 S	21GB003	21GB003	21GB004	21GB004	21GB004	21GB004	21GB005	21GB005	21GB005	21GB005
Sample Depth (feet BGS)	2.0 - 2.5	2.8 - 4.0	5.5 - 6.0	8.5 - 9.0	1.8 - 2.3	4.0 - 4.5	5.5 - 6.0	8.0 - 8.5	0.5 - 1.0	2.5 - 3.0	5.5 - 6.0	8.5 - 9.0
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)												
ALUMINUM	NA	20,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	--	--	--	--	--	3.7 J	--	--	3.5 J	--	--	--
ARSENIC	NA	8.2 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	223 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	2.0 *la	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMUM	--	--	--	--	--	3.4 J	--	--	--	--	--	--
CALCIUM	6,920 J 87.5 J	3,500 32.7 J	9,680 J 152 J *	34,600 J 149 J *	47,500 J 202 J *a	18,200 J 91.2 J	9,890 J 171 J *a	8,250 J 152 J *	5,680 J 94.6 J	28,100 J 191 J *a	10,200 J 157 J *	35,000 J 138 J
CHROMIUM												
COPPER	25.2	21.4	34.7	21.7	72.0	40.5	29.5	28.4	17.5	122 *	37.3	31.8
IRON	37,700	34,000	44,200	40,600	55,800	31,900	40,000	39,600	22,600	39,900	39,400	37,200
LEAD	10.6	12.2	14.0	16.5	15.7	17.0	15.2	9.1 J	11.5	167 *a	18.3	12.0
MAGNESIUM	NA	6,470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	1,020	1,170	659	966	982	2,010 *	877	604	347	756	600	711
NICKEL	23.4	44.0	75.3	70.4	53.8	57.1	74.7	66.9	68.7	54.1	59.7	
POTASSIUM	14,600 J 3.8 J	2,740	8,240 J	7,640 J	6,670 J	15,600 J	8,000 J	7,970 J	14,200 J	10,700 J	8,560 J	7,840 J
SILVER		--	--	--	--	--	--	--	--	--	--	--
TIN	11.9	11.5	12.0	16.6	15.1	12.5	12.7	14.3	15.2	15.9	13.4	12.4
TITANIUM	3,610	3,880	4,420	4,350	8,200	3,420	4,130	4,270	3,320	4,180	4,360	4,090
VANADIUM	79.8 J	60.9	130 J	124 J	218 J *	113 J	108 J	103 J	63.8 J	98.9 J	135 J	98.8 J
ZINC	61.0	71.9	58.6	54.5	208	98.7	63.6	57.6	39.4	171	75.5	53.8
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
TOLUENE	--	--	0.003 J	NA	NA	0.1	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
XYLENE (TOTAL)	--	--	--	--	--	0.7	--	--	--	--	--	--
SEMOVOLATILE ORGANIC COMPOUNDS	NA	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PESTICIDES	NA	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs	--	--	--	--	--	--	--	--	--	--	--	--
PETROLEUM INDICATORS	--	--	--	--	--	--	--	--	--	--	--	--
PH												
PH	NA	8.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes to table on page T-3.

BUILDINGS 386, 388, AND 390 PHASE I/II RI SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	21GB006	21GB006	21GB006 ^S	21GB006
Sample Depth (feet BGS)	1.5 - 2.0	2.5 - 3.0	4.8 - 6.0	8.5 - 9.0
Matrix	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)				
ALUMINUM	NA	NA	43,600 J * ^a	NA
ANTIMONY	4.5 J	--	--	--
BARIUM	NA	NA	227	NA
BERYLLIUM	NA	NA	2.3 * ^a	NA
CALCIUM	10,600 J	7,770 J	5,920	170,000 J
CHROMIUM	155 J *	156 J *	80.2	118 J
COPPER	172 * ^a	72.5	23.8	27.5
IRON	45,300	52,300	38,200	39,100
LEAD	781 * ^a	112 * ^a	5.7 J	9.7 J
MAGNESIUM	NA	NA	8,190	NA
MANGANESE	392	359	467	903
NICKEL	81.5	88.3	74.6	119
POTASSIUM	15,000 J	13,900 J	3,030	7,020 J
SODIUM	NA	NA	3,000	NA
TIN	28.8	15.8	14.9	16.6
TITANIUM	4,270	4,770	4,460	3,150
VANADIUM	154 J	199 J *	83.3	--
ZINC	529 * ^a	231 *	62.2	83.2
VOLATILE ORGANIC COMPOUNDS (mg/kg)				
2-BUTANONE	NA	NA	0.02	NA
ACETONE	NA	NA	0.1	NA
TRICHLOROETHENE	NA	NA	0.03	NA
SEMIVOLATILE ORGANIC COMPOUNDS	NA	NA	--	NA
PESTICIDES	NA	NA	--	NA
PCBs	--	--	--	--
PETROLEUM INDICATORS (mg/kg)				
DIESEL RANGE	84 J	--	--	--
GASOLINE RANGE	--	11 J	--	--
TRPH	NA	NA	82	NA
PE				
PH	NA	NA	9.0	NA

Notes: -- = Not detected or rejected, J = Estimated value, NA = Not analyzed, mg/kg = Milligrams per kilogram, BGS = Below ground surface, TRPH = Total recoverable petroleum hydrocarbons, PCB = Polychlorinated biphenyls

Analytical results for the site indicate that chromium VI was not detected, for the purposes of this RI, chromium is assumed to be chromium III.

Inorganic results less than 10 are reported to two significant figures, and results greater than 10 are reported to three significant figures.

Organic results less than 10 are reported to one significant figure, and results greater than 10 are reported to two significant figures.

Concentrations shown in bold type are greater than preliminary remediation goal (PRG) for residential use or the Group II/III screening criteria for lead, PCBs, and TPH.

BUILDINGS 386, 388, AND 390 PHASE I/II RI SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Notes (continued):

* = Detected metals concentration greater than the ambient concentration (95th percentile).

! = Detected concentrations greater than preliminary remediation goals (PRG) for industrial use

α = Detected metals concentration greater than the ambient concentration (99th percentile)

Diesel range includes hydrocarbons quantified as diesel and diesel-range unknowns. Gasoline range includes hydrocarbons quantified as gasoline and gasoline-range unknowns.

Motor oil range includes hydrocarbons quantified as motor oil and motor-oil-range unknowns.

Only constituents that were detected in at least one sample are listed.

s - The sample was split for analysis by both on-site and off-site laboratories. Where both laboratories analyzed the sample for the sample constituent, the average of the two results is shown; if the constituent was not detected in one of the two analyses, only the detected result is shown.

BUILDINGS 386, 388, AND 390 PHASE I/II RI SUMMARY OF ANALYTICAL RESULTS FOR AQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	21GB004	21GB006	21GB006
Matrix	WATER	WATER	WATER
METALS (µg/L)			
ALUMINUM	7,380 #α	24,100 #α	NA
ARSENIC	--	12.7 J	NA
BARIUM	171	499	NA
BERYLLIUM	--	1.1	NA
CALCIUM	63,200	63,600	NA
CHROMIUM	16.7	43.3 α	NA
COPPER	71.1 *α	23.3 *	NA
IRON	12,000	28,700	NA
LEAD	79.4 α*#	17.8 J *α	NA
MAGNESIUM	39,800	55,200	NA
MANGANESE	2,960	1,900	NA
MOLYBDENUM	--	61.1 #α	NA
NICKEL	118 α*#	75.6 *α	NA
POTASSIUM	8,560	27,600	NA
SODIUM	1,030,000	829,000	NA
ZINC	136 *	71.1	NA
VOLATILE ORGANIC COMPOUNDS (µg/L)			
ACETONE	--	12	NA
SEMOVOLATILE ORGANIC COMPOUNDS (µg/L)			
PHENOL	--	NA	2 J
TOTAL SVOCs	--	NA	2 J
PCBs	--	NA	NA
PETROLEUM INDICATORS	--	--	--

Notes: -- = Not detected or rejected, J = Estimated value, NA = Not analyzed, µg/L = Micrograms per liter, mg/L = Milligram per liter, BGS = Below ground surface

TRPH = Total recoverable petroleum hydrocarbons, PCB = Polychlorinated biphenyls

Analytical results for the site indicate that chromium VI was not detected; for the purposes of this RI, chromium is assumed to be chromium III.

Inorganic results less than 10 are reported to two significant figures, and results greater than 10 are reported to three significant figures.

Organic results less than 10 are reported to one significant figure, and results greater than 10 are reported to two significant figures.

α = Detected metal concentrations greater than the ambient groundwater concentration (95th percentile).

* = Detected concentrations greater than the U.S. EPA National Ambient Water Quality Criteria for Saltwater Aquatic Life Protection, continuous concentration (4-day average).

= Detected metal concentrations greater than the ambient groundwater concentration (99th percentile).

Diesel range includes hydrocarbons quantified as diesel and diesel-range unknowns. Gasoline range includes hydrocarbons quantified as gasoline and gasoline-range unknowns.

Motor oil range includes hydrocarbons quantified as motor oil and motor-oil-range unknowns.

Only constituents that were detected in at least one sample are listed.

TABLE 1

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	B382GB001 S	B382GB002 S	B382GB003 S	B382GB003 S								
Sample Depth (feet BGS)	2.0 - 2.3	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	2.0 - 2.5	4.0 - 4.5
Matrix	SOIL											
METALS (mg/kg)												
ALUMINUM	NA	NA	20,600	NA	NA	NA	NA	24,100	NA	NA	NA	NA
ANTIMONY	--	--	25.7 I	13.4 I	--	11.8 I	--	6.5 J	1.1 J	--	23.1 I	9.5 J *
ARSENIC	--	NA	NA	64.7	NA	NA	NA	13.2 I	14.0 I	NA	NA	5.1 J
BARIUM	--	--	--	--	NA	NA	NA	82.1	--	--	--	--
CADMIUM	--	--	--	--	--	4.0 J	--	--	--	--	--	--
CALCIUM	22,900	8,990	4,470	7,350	6,570	103,000	24,700	5,610	31,600	6,040	90,000	20,300
CHROMIUM	131	179 *α	122	166 *α	184 *α	163 *α	161 *α	142 *	167 *α	180 *α	247 *α	155 *
COBALT	--	--	--	--	--	--	--	17.9	--	--	--	--
COPPER	46.2	64.1	52.7	72.3	76.8	46.0	72.6	58.2	51.4	71.1	99.0	139 *
IRON	41,600	54,900	44,200	52,500	49,500	34,400	49,100	45,100	48,000	58,500	41,500	48,800
LEAD	102 *α	53.5	26.4 J	50.0	19.0	55.2	47.8	53.7	62.7 *α	11.2	48.7	253 *α
MAGNESIUM	NA	NA	7,670	NA	NA	NA	NA	8,780	NA	NA	NA	NA
MANGANESE	588	826	510 J	594	757	687	810	425	714	956	743	782
MERCURY	--	--	0.46 J	--	--	--	--	0.52	--	--	--	--
NICKEL	93.8	103	96.6 J	122	109	112	96.4	92.9	89.7	106	131 *	86.3
POTASSIUM	14,600	15,700	8,850	15,200	14,300	8,500	15,400	8,880	13,200	14,900	9,550	16,800
SILVER	--	2.9 J	--	--	--	10.6	--	--	--	3.7 J	7.7 J	--
SODIUM	NA	NA	3,140	NA	NA	NA	NA	1,470 J	NA	NA	NA	NA
TIN	10.3	7.3 J	8.9 J	11.6	5.8 J	19.4	5.6 J	9.2 J	10.3	--	12.3	25.7
TITANIUM	4,610	5,150	5,480	5,310	5,540	4,470	5,410	5,980	5,270	5,880	4,870	4,730
VANADIUM	141	184	141	198 *	200 *	95.1	175	145	191 *	221 *α	124	140
ZINC	221	138	98.4	145	94.4	145	132	1,640 *α	105	150	113	328 *α
SEMITOLATILE ORGANIC COMPOUNDS (mg/kg)												
2-METHYLNAPHTHALENE	--	--	0.09 J	--	--	--	--	--	--	--	--	--
ACRNAPHTHENE	--	--	0.1 J	--	--	--	--	--	--	--	--	--
CHRYSENE	--	--	0.1 J	--	--	--	--	--	--	--	--	--
FLUORENE	--	--	0.2 J	--	--	--	--	--	--	--	--	--
PHENANTHRENE	--	--	0.3 J	--	--	--	--	--	--	--	--	--
PHENOL	--	0.1 J	--	--	--	--	--	1 J	--	0.7	0.2 J	--
PYRENE	--	--	0.1 J	--	--	--	--	0.2 J	--	--	--	--
TOTAL SVOCs	--	0.1 J	0.9 J	--	--	--	--	1 J	--	0.7	0.2 J	--
PESTICIDES	NA	NA	NA	--	NA							
PCBs	--	--	--	--	--	--	--	--	--	--	--	--
PETROLEUM INDICATORS (mg/kg)												
MOTOR OIL RANGE	70 Y	8,100 J	2,400 Y	4,300 Y	210 Y	210 Y	110 Y	5,200 Y	520 Y	34 Y	1,400 Y	23 Y
PH												
PH	8.3	7.9	7.6	7.8	7.9	10.3	8.6	8.1	8.3	8.4	10.4	8.1

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B382GB003 ^S	B382GB003 ^S	B382GB003 ^S	B382GB004 ^S	B386GB001	B386GB001	B386GB002					
Sample Depth (feet BGS)	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.5 - 1.0	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.0 - 0.5	3.5 - 4.0	3.5 - 4.0
Matrix	SOIL	SOIL	SOIL	SOIL								
METALS (mg/kg)												
ALUMINUM	26,500	NA	NA	NA	NA	NA	26,700	NA	NA	7,550	NA	22,100
ANTIMONY	1.1 J	--	--	14.6 I	5.8 J I	6.5 J	5.3 J	--	--	1.1 J	NA	--
ARSENIC	17.2 I	--	14.6 I	NA	NA	16.5 I	13.9 I	10.1 J I	13.9 I	7.9 I	NA	17.4 J I
BARIUM	80.3	NA	NA	NA	NA	NA	113	NA	NA	337 J	NA	68.9
BERYLLIUM	--	NA	NA	NA	NA	NA	--	NA	NA	0.65 J	NA	0.69 J
CADMUM	--	--	--	--	--	--	--	--	--	1.8	NA	--
CALCIUM	4,830	13,700	7,140	55,200	13,000	8,830	5,650	6,990	5,900	10,000	NA	2,850
CHROMIUM	129	136	154 *	84.0	82.5	174 * α	135	180 * α	172 * α	88.3	NA	71.2
COBALT	15.1 J	--	--	--	--	--	17.8	--	--	13.0	NA	16.2
COPPER	64.0	85.0	73.6	43.8	41.1	54.4	62.3	64.2	75.7	1,210 * α	NA	55.1
IRON	45,400	52,800	55,400	46,800	34,500	54,500	44,400	52,600	55,300	26,400	NA	30,500
LEAD	30.1	142 * α	24.8	--	9.0 J	30.0	26.2 J	10.4	19.6	616 J * α	NA	24.3
MAGNESIUM	8,720	NA	NA	NA	NA	NA	11,200	NA	NA	3,790	NA	8,120
MANGANESE	333	659	758	982	567	677	424	803	941	326 J	NA	264
MERCURY	0.53	--	--	NA	NA	NA	0.87	--	NA	0.90 J	NA	0.64 J
MOLYBDENUM	--	NA	NA	NA	NA	NA	--	NA	NA	58.9 J	NA	27.8 J
NICKEL	88.6	84.6	98.2	36.2	28.7	91.0	107	96.0	115	921 * α	NA	66.5
POTASSIUM	9,080	15,700	14,700	9,310	22,100	14,700	9,200 J	14,100	14,600	919 J	NA	2,790
SILVER	--	--	--	NA	--	NA	--	--	--	2.6	NA	--
SODIUM	3,550	NA	NA	NA	NA	NA	609 J	NA	NA	2,000 J	NA	2,930
TIN	17.5	23.1	9.2 J	15.4	12.6	12.9	12.9	13.7	6.3 J	NA	NA	NA
TITANIUM	6,010	5,050	5,580	6,710	4,790	5,820	5,510	5,410	5,610	NA	NA	NA
VANADIUM	155	172	209 *	157	129	192 *	154	214 *	227 * α	38.4	NA	91.8
ZINC	104	173	104	107	107	112	118	104	108	899 * α	NA	84.6 J
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
ACETONE	NA	0.05 J	0.001 J	0.1 J								
TOLUENE	NA	NA	NA	--								
SEMITVOLATILE ORGANIC COMPOUNDS (mg/kg)												
PHENOL	0.2 J	0.4 J	--	0.4	0.2 J	0.2 J	--	0.2 J	--	--	--	--
TOTAL SVOCs	0.2 J	0.4 J	--	0.4	0.2 J	0.2 J	--	0.2 J	--	--	--	--
PESTICIDES (mg/kg)												
4,4'-DDD	NA	0.009 J	0.03	--								
4,4'-DDE	NA	0.004 J	0.01	--								
4,4'-DDT	NA	0.02 J	0.09 J	--								
ALPHA-CHLORDANE	NA	0.01 J	0.02 J	--								
DELTA-BHC	NA	--	0.002	--								
ENDOSULFAN II	NA	--	0.01	--								
ENDOSULFAN SULFATE	NA	0.008 J	0.02	--								
ENDRIN KETONE	NA	0.009 J	0.02	--								
GAMMA-CHLORDANE	NA	0.008 J	0.05 J	--								
HEPTACHLOR	NA	0.008 J	0.03	--								
HEPTACHLOR EPOXIDE	NA	0.003 J	0.006	--								
METHOXYCHLOR	NA	--	0.03	--								

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B382GB003 ^S	B382GB003 ^S	B382GB003 ^S	B382GB004 ^S	B386GB001	B386GB001	B386GB002					
Sample Depth (feet BGS)	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.5 - 1.0	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.0 - 0.5	3.5 - 4.0	3.5 - 4.0
Matrix	SOIL	SOIL	SOIL	SOIL								
PCBs (mg/kg)												
AROCLOL-1260 TOTAL PCBs	-- --	0.05 0.05	-- --	-- --	-- --	-- --						
PETROLEUM INDICATORS (mg/kg)												
GASOLINE RANGE MOTOR OIL RANGE	NA 210 Y	NA 1,400 Y	NA 43 Y	NA 290 Y	NA --	NA 47 Y	NA 94 Y	NA 30 Y	NA --	-- 3,400 Y	1 J 3,500 Y	-- 28 J
PH												
PH	8.1	8.9	8.2	7.4	7.5	6.7	6.9	7.5	8.1	7.2	7.6	8.2

Notes to table on page

TABLE 1 (Continued)

**BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA**

Sample Location ID	B386GB002	B386GB003	B386GB003	B386GB003	B386GB003	B386GB003	B386GB004 ^S	B386GB005				
Sample Depth (feet BGS)	11.0 - 11.5	0.0 - 0.5	4.0 - 4.5	12.0 - 12.0	0.0 - 0.5	4.0 - 4.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	0.0 - 0.5
Matrix	SOIL	SOIL	SOIL	WATER	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)												
ALUMINUM	10,800	8,630	24,900	NA	NA	NA	NA	23,700	NA	NA	NA	NA
ANTIMONY	--	--	--	NA	NA	NA	1.7 J	9.9 *	--	NA	NA	NA
ARSENIC	7.6 J 1	5.5 1	10.7 1	NA	NA	NA	--	16.2 1	3.1 J 1	2.0 J	16.8 1	5.1 J
BARIUM	194	146 J	141 J	NA	NA	NA	NA	83.7 J	NA	NA	NA	--
BERYLLIUM	0.61 J	--	0.85 J	NA	NA	NA	NA	--	NA	NA	NA	NA
CADMUM	--	2.0	--	NA	NA	NA	1.5 J	2.5 J	--	NA	--	5.1 J
CALCIUM	22,800	6,620 J	4,920 J	NA	NA	NA	8,660	6,180	10,000	159,000	22,000	60,500
CHROMIUM	23.2	58.3	84.7	NA	NA	NA	98.1	132	147 *	112	123	612 *a
CHROMIUM VI	NA	NA	NA	NA	--	--	--	NA	NA	NA	NA	NA
COBALT	9.7	9.8	18.6	NA	NA	NA	--	15.0 J	NA	NA	NA	--
COPPER	18.7	354 J *a	88.5 J	NA	NA	NA	14.3	70.3	26.4	33.7	39.0	2,020 *a
IRON	12,500	29,800	39,400	NA	NA	NA	29,000	46,100	45,700	45,300	46,700	43,000
LEAD	13.3	265 J *a	194 J *a	NA	NA	NA	5.6 J	48.4 J	12.7	2.3 J	12.4	248 *a
MAGNESIUM	3,180	3,620	9,030	NA	NA	NA	NA	9,260	NA	NA	NA	NA
MANGANESE	149	296 J	942 J	NA	NA	NA	621	471	443	627	304	814
MERCURY	--	0.21 J	0.55 J	NA	NA	NA	--	0.40	--	--	--	--
MOLYBDENUM	9.5 J	46.3	42.8	NA	NA	NA	NA	--	NA	NA	NA	NA
NICKEL	29.5	273 *a	91.2	NA	NA	NA	35.7	99.0	81.9	117	80.8	551 *a
POTASSIUM	2,000	997	2,000	NA	NA	NA	20,100	8,330 J	9,390	3,130	13,200	8,580
SILVER	--	--	--	NA	NA	NA	--	1.3 J	0.61 J	2.2 J	0.03 J	1.4 J
SODIUM	5,220	3,640	491 J	NA	NA	NA	NA	1,500 J	NA	NA	NA	NA
THALLIUM	--	0.73	1.5	NA	NA	NA	NA	--	NA	NA	NA	NA
TIN	NA	NA	NA	NA	NA	NA	12.1	7.3 J	13.0	15.3	13.4	48.3
TITANIUM	NA	NA	NA	NA	NA	NA	2,650	5,260	4,320	3,760	4,080	5,010
VANADIUM	50.2	34.3	88.8	NA	NA	NA	NA	49.7	139	132	90.9	153
ZINC	22.0 J	656 *a	231 *	NA	NA	NA	89.8	737 *a	56.9	56.9	74.9	75.0
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
4-METHYL-2-PENTANONE	--	--	0.03	0.08	NA	NA	NA	0.0006 J	--	--	--	NA
ETHYLBENZENE	--	0.002 J	--	NA	NA	NA	NA	--	--	--	--	NA
TOLUENE	--	0.2	0.6	NA	NA	NA	NA	--	--	--	--	NA
XYLENE (TOTAL)	--	--	--	NA	NA	NA	NA	--	--	--	--	NA
SEMITOLVATILE ORGANIC COMPOUNDS (mg/kg)												
PHENOL	0.1 J	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL SVOCs	0.1 J	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
PESTICIDES (mg/kg)												
4,4'-DDD	--	0.008	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	--	0.004	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALDRIN	--	0.006	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
ENDRIN	--	0.002	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
GAMMA-CHLORDANE	--	0.005	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR	--	0.004	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
HEPTACHLOR EPOXIDE	--	0.008	--	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes to table on page

TABLE 1 (Continued)

**BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA**

Sample Location ID	B386GB002	B386GB003	B386GB003	B386GB003	B386GB003	B386GB003	B386GB004 ^S	B386GB005				
Sample Depth (feet BGS)	11.0 - 11.5	0.0 - 0.5	4.0 - 4.5	12.0 - 12.0	0.0 - 0.5	4.0 - 4.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	0.0 - 0.5
Matrix	SOIL	SOIL	SOIL	WATER	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PCBs	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
PETROLEUM INDICATORS (mg/kg)												
DIESEL RANGE MOTOR OIL RANGE	--	1,300 J 640 J	99 Y 49 Y	0.9 J 0.9 J	NA	NA	44 Y 1,300	9 J 110 Y	-- 64	-- 46	-- 17	530 Y 5,500 Y
pH												
pH	9.5	7.4	7.9	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	B386GB005 ^S	B386GB005 ^S	B386GB005 ^S	B386GB005 ^S	B386GB006	B386GB006 ^S	B386GB006 ^S	B386GB006 ^S	B386GB006 ^S	B386GB007	B386GB007 ^S	B386GB007 ^S
Sample Depth (feet BGS)	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)												
ALUMINUM	NA	NA	NA	31,300	NA	NA	2,490	2,770	26,200	NA	NA	NA
ANTIMONY	4.9 J	--	1.8 J	1.6 J	--	1.4 J	8.9 J *	10.0 J *	2.8 J	2.6 J	5.8 J	8.0 J
ARSENIC	23.3 I	13.3 I	23.6 J I	5.3 J I	--	4.4 J I	--	--	7.4 J I	3.6 J I	--	--
BARIUM	NA	NA	83.4	NA	NA	NA	19.5 J	10.7 J	176	NA	NA	NA
BERYLLIUM	NA	NA	0.46 J	NA	NA	NA	--	--	0.82 J	NA	NA	NA
CADMUM	--	--	1.0 J	--	1.5 J	2.8 J	--	--	0.05 J	2.0 J	--	0.16 J
CALCIUM	7,200	6,510	3,940	6,340	41,600	3,890	12,300	19,800	7,940	5,580	8,170	10,700
CHROMIUM	190 *α	196 *α	132	154 *	205 *α	4,990 *α	2,220 *α	3,470 *α	133	85.0	96.2	152 *
CHROMIUM VI	NA	NA	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
COBALT	--	--	16.8	--	--	--	27.8 J	28.5 J	26.3 J	--	--	--
COPPER	169 *α	74.7	66.2 J	27.2	257 *α	380 *α	226 *α	84.9	35.4	66.6	41.1	158 *α
IRON	55,900	65,200	49,000	45,600	39,000	101,000	60,400	69,900	39,200	26,400	31,400	48,500
LEAD	42.6	26.5	26.9 J	16.0	55.2	117 *α	122 J *α	126 J *α	15.2 J	15.1	675 *α	140 *α
MAGNESIUM	NA	NA	10,400	NA	NA	NA	41,100	50,100	6,620	NA	NA	NA
MANGANESE	975	608	380	310	1,020	1,760 *	986	1,240	200	476	456	--
MERCURY	0.06 J	--	0.60	--	1.4 J	--	0.31 J	--	1,200	1.6 J	--	--
MOLYBDENUM	NA	NA	--	NA	NA	NA	1.4	--	NA	NA	NA	NA
NICKEL	119	126	104	56.0	254 *α	987 *α	849 *α	1,060 *α	101	40.1	40.4	113
POTASSIUM	14,200	13,800	8,380 J	15,900	9,740	160	2,620 J	--	4,450 J	14,200	15,500	14,500
SILVER	1.6 J	--	--	--	--	0.87 J	--	3.5 J	--	--	--	--
SODIUM	NA	NA	3,930	NA	NA	NA	--	--	2,050	NA	NA	NA
THALLIUM	NA	NA	--	NA	NA	NA	0.77	1.0	--	NA	NA	NA
TIN	13.0	15.3	7.1 J	10.4	11.4	15.3	15.2	13.4	11.0	10.8	10.9	11.9
TITANIUM	5,280	5,340	5,350	4,320	6,020	370	2,860	710	4,450	3,180	3,800	4,930
VANADIUM	166	184	157	107	211 *	15.0	54.6 J	14.7 J	102	84.1	65.6	196 *
ZINC	142	109	108	76.1	168	393 *α	318 *α	409 *α	68.3	178	100	312 *α
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
TOLUENE	--	--	--	--	NA	0.0004 J	--	--	NA	NA	--	--
XYLENE (TOTAL)	--	--	--	--	NA	0.0005 J	--	--	NA	NA	--	--
ORGANOTINS (mg/kg)												
TRIBUTYLTIN	NA	NA	NA	NA	NA	NA	--	0.01	NA	NA	NA	NA
TOTAL ORGANOTINS	NA	NA	NA	NA	NA	NA	--	0.01	NA	NA	NA	NA
PETROLEUM INDICATORS (mg/kg)												
DIESEL RANGE	230 Y	440 Y	1,400 Y	860 Y	2 Y	140 Y	13 Y	11 Y	41 Y	31 Y	1,000 Y	1 Y
MOTOR OIL RANGE	1,300 Y	1,600 Y	1,200 Y	16 Y	16 Y	1,200 Y	56 Y	30 Y	41 Y	54 Y	3,000 Y	10 Y
												280 Y
												850 Y

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	B386GB007 ^S	B386GB007 ^S	B386GB008	B386GB008 ^S	B386GB008 ^S	B386GB009	B386GB009 ^S	B386GB009 ^S	B386GB010	B386GB010 ^S	B386GB010 ^S	B386GB011
Sample Depth (feet BGS)	6.0 - 6.5	8.0 - 8.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	0.0 - 0.5
Matrix	SOIL	SOIL	SOIL									
METALS (mg/kg)												
ALUMINUM	NA	32,800	NA	NA	NA	NA	NA	11,600	NA	NA	NA	NA
ANTIMONY	7.2 J	--	8.9 J I	12.3 I	2.8 J	3.5 J	3.6 J	2.5 J	4.1 J	--	11.0 I	4.5 J
ARSENIC	--	247	NA	NA	10.7 I	8.8 J I	--	4.8 J I	14.0 I	3.7 J I	NA	--
BARIUM	NA	NA	NA	NA	NA	NA	NA	90.7	NA	NA	NA	NA
BERYLLIUM	NA	0.86 J	NA	NA	NA	NA	NA	--	NA	NA	NA	NA
CADMUM	0.93 J	1.6 J	2.1 J	1.3 J	2.0 J	1.1 J	5.4 J *	0.21 J	0.40 J	--	1.6 J	--
CALCIUM	9,060	4,180	9,670	10,600	10,100	16,000	24,400	11,400	10,300	5,270	26,900	8,240
CHROMIUM	189 *α	111	73.6	40.2	60.7	136	104	61.5	230 *α	92.3	175 *α	94.8
CHROMIUM VI	NA	NA	NA	NA	NA	NA	NA	--	NA	--	NA	NA
COBALT	--	13.6 J	--	--	--	--	--	8.6 J	--	--	--	--
COPPER	814 *α	39.0 J	34.2	3.4 J	19.5	77.1	371 *α	34.6 J	269 *α	12.9	73.6	93.7
IRON	56,700	49,000	36,200	24,200	29,100	49,100	57,000	22,100	44,200	26,400	37,800	28,800
LEAD	102 *α	18.5 J	14.7	5.9 J	16.2	167 *α	1,100 *!α	74.1 J *α	37.1	5.3 J	43.1	67.4 *α
MAGNESIUM	NA	8,160	NA	NA	NA	NA	NA	2,660	NA	NA	NA	NA
MANGANESE	413	312	433	419	238	578	751	344	472	262	527	229
MERCURY	--	0.09 J	--	--	--	3.0 J *	--	0.71 J	--	1.1 J	--	--
NICKEL	152 *α	72.3	38.7	15.5	13.1	82.2	138 *	28.8	283 *α	28.0	109	57.9
POTASSIUM	14,800	10,500 J	19,300	19,800	20,100	14,100	14,000	9,460 J	18,000	15,600	14,000	14,200
SILVER	--	--	0.25 J	2.4 J	--	NA	4.8 J	1.1 J	--	NA	--	--
SODIUM	NA	10,100	NA	NA	NA	NA	NA	1,150 J	NA	NA	NA	NA
TIN	11.5	6.6 J	11.6	11.9	14.4	21.6	50.8	11.0	11.0	8.0 J	8.2 J	36.1
TITANIUM	5,040	4,550	3,950	3,510	3,740	4,130	4,540	3,920	3,780	3,700	4,020	3,330
VANADIUM	168	106	107	72.4	92.0	114	96.0	61.4	117	109	134	97.0
ZINC	601 *α	75.7	104	63.8	72.1	208	1,980 *α	96.7	146	44.6	106	220
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
1,2-DICHLOROETHENE (TOTAL)	--	--	NA	--	--	NA	--	--	NA	0.0004 J	--	NA
ACETONE	--	--	NA	--	--	NA	0.09	--	NA	--	0.09	NA
CHLOROBENZENE	--	--	NA	--	--	NA	--	0.001 J	NA	--	--	NA
CHLOROMETHANE	--	0.001 J	NA	--	--	NA	--	--	NA	--	--	NA
ETHYLBENZENE	--	--	NA	--	--	NA	0.002 J	--	NA	--	--	NA
STYRENE	--	--	NA	--	--	NA	--	0.0008 J	NA	--	--	NA
TOLUENE	--	0.0006 J	NA	--	--	NA	0.0004 J	0.0005 J	NA	--	0.0007 J	NA
XYLENE (TOTAL)	--	--	NA	--	--	NA	0.009 J	0.001 J	NA	--	--	NA
PETROLEUM INDICATORS (mg/kg)												
DIESEL RANGE	740 Y	9 Y	18 Y	6 Y	420 Y	6,500 Y	4,600 Y	7,400 Y	9,100 Y	55 Y	730 Y	--
MOTOR OIL RANGE	2,000 Y	71 Y	110 Y	38 Y	1,400 Y	17,000 Y	14,000 Y	9,300 Y	18,000 Y	300 Y	1,800 Y	1,200 Y

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	B386GB011 ^s	B386GB011	B386GB011	B386GB011	B386GB011	B386GB012 ^s	B386GB012	B386GB012	B386GB012	B386GB012	B386GB012	B386GB012	B386GB013
Sample Depth (feet BGS)	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.0 - 0.5	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)													
ALUMINUM	NA	NA	NA	NA	NA	11,700	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	--	--	10.8 I	6.9 J I	5.9 J	--	--	5.9 J I	6.7 J I	--	--	--	7.6 J
ARSENIC	--	NA	NA	NA	7.0 J I	16.1 I	8.5 I	NA	NA	NA	NA	NA	--
BARIUM	--	NA	NA	NA	NA	29.1 J	NA	NA	NA	NA	NA	NA	NA
CALCIUM	28,600	22,400	10,700	48,400	328,000	7,960	5,860	5,850	25,100	9,410	65,200	20,500	
CHROMIUM	145 *	102	174 * α	163 * α	105	52.6	118	101	101	166 * α	175 * α	143 *	
COBALT	--	--	--	--	--	4.3 J	--	--	--	--	--	--	--
COPPER	87.1	44.4	32.0	47.1	39.8	37.9	19.1	21.8	115	32.1	23.6	142 *	
IRON	40,200	41,600	47,900	46,800	30,500	21,900	22,700	26,600	37,000	44,100	43,900	31,800	
LEAD	85.1 * α	22.2	17.9	--	--	12.9 J	31.4	7.0 J	202 * α	14.8	7.8 J	651 * α	
MAGNESIUM	NA	NA	NA	NA	NA	1,860	NA	NA	NA	NA	NA	NA	
MANGANESE	723	685	483	1,300	598	184 J	142	279	521	547	656	203	
NICKEL	90.7	71.2	97.4	115	87.8	26.0 J	17.8	24.6	59.1	83.3	108	151 * α	
POTASSIUM	13,500	17,500	9,580	7,920	2,250	7,720 J	14,700	15,200	18,100	9,000	7,920	14,200	
TIN	19.2	9.6 J	8.6 J	12.1	17.0	10.3	6.4 J	12.2	15.2	7.6 J	13.7	10.3	
TITANIUM	4,470	4,410	5,050	4,770	3,630	3,190	3,890	3,700	4,380	4,670	4,570	3,480	
VANADIUM	135	158	139	133	--	57.3	92.1	83.3	134	145	125	91.7	
ZINC	165	93.2	66.1	66.5	71.1	47.9	37.6	37.4	296 * α	59.9	80.5	284 * α	
PETROLEUM INDICATORS (mg/kg)													
MOTOR OIL RANGE	510 JY	8 Y	11 Y	8 Y	--	440 Y	14 Y	95 Y	210 Y	2,200 Y	26 Y	NA	
PH													
PH	8.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B386GB013 ^s	B386GB013	B386GB013	B386GB013	B386GB014	B386GB014	B386GB014 ^s	B386GB014	B386GB014	B386GB014	B386GB015 ^s	B386GB015	
Sample Depth (feet BGS)	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	10.0 - 10.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.0 - 0.5	2.0 - 2.5	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
METALS (mg/kg)													
ALUMINUM	18,600	NA	NA	NA	NA	NA	24,500	NA	NA	NA	NA	NA	NA
ANTIMONY	17.6 * ^a	--	--	--	5.2 J	0.90 J	--	--	--	--	NA	NA	NA
ARSENIC	12.6 I	14.7 I	9.0 J I	6.8 J I	--	--	13.3 I	10.1 I	--	--	12.8 I	NA	NA
BARIUM	219	NA	NA	NA	NA	NA	83.7	NA	NA	NA	NA	NA	NA
CADMIUM	5.5 J *	2.8 J	--	3.3 J	--	0.24 J	--	--	--	--	NA	NA	NA
CALCIUM	35,900	8,800	11,700	11,000	9,070	15,900	5,740	7,840	7,420	7,620	NA	NA	NA
CHROMIUM	89.6	94.9	175 * ^a	171 * ^a	110	114	120	184 * ^a	160 * ^a	166 * ^a	NA	NA	NA
COBALT	21.3 J	--	--	--	--	21.3 J	--	--	--	--	NA	NA	NA
COPPER	802 * ^a	56.2	87.9	51.5	44.0	489 * ^a	65.9	81.8	34.0	38.7	NA	NA	NA
IRON	37,600	36,500	47,500	45,600	24,400	39,100	47,800	65,500	40,300	40,300	NA	NA	NA
LEAD	1,040 J * ^a	21.1	51.6	9.1 J	53.5	348 * ^a	40.0 J	39.5	18.6	9.6 J	NA	NA	NA
MAGNESIUM	5,830	NA	NA	NA	NA	NA	10,100	NA	NA	NA	NA	NA	NA
MANGANESE	613 J	654	652	795	259	588	1,080 J	618	490	1,190	NA	NA	NA
MERCURY	1.7 J	--	--	--	--	--	0.36 J	--	--	--	NA	NA	NA
NICKEL	57.2 J	37.1	92.9	98.7	57.4	116	116 J	122	89.7	86.4	NA	NA	NA
POTASSIUM	7,360	19,900	8,400	8,830	16,300	19,000	8,340	14,400	14,400	16,900	11,100	NA	NA
SILVER	--	--	--	--	--	--	--	--	--	4.3 J	NA	NA	NA
SODIUM	1,660	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA	NA
TIN	261	6.8 J	9.5 J	6.3 J	13.1	45.0	7.7 J	10.1	--	5.9 J	NA	NA	NA
TITANIUM	3,550	4,280	4,730	4,920	3,790	4,310	5,320	5,550	4,590	4,670	NA	NA	NA
VANADIUM	80.6	126	125	126	108	135	155	198 *	144	128	NA	NA	NA
ZINC	1,650 * ^a	165	91.7	73.4	63.8	647 * ^a	122	143	79.8	68.6	NA	NA	NA
PETROLEUM INDICATORS (mg/kg)													
DIESEL RANGE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27 Y	2,700 Y	--
MOTOR OIL RANGE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,300 Y
PH													
PH	8.4	NA	NA	NA	NA	NA	NA	8.1	NA	NA	NA	NA	NA

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B386GB015	B386GB015	B386GB015	B386GB015	B386GB016	B386GB016	B386GB016 ^S	B386GB016	B386GB016	B386GB016	B386GB016	B386GB017 ^S	B386GB017
Sample Depth (feet BGS)	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.0 - 0.5	12,300	NA
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	8.7 J ^I	7.7 J ^I
METALS (mg/kg)													
ALUMINUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12,300	NA
ARSENIC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.7 J ^I	7.7 J ^I
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	208	NA
CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.46 J	--
CALCIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,680	7,000
CHROMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.3	106
COBALT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.1 J	--
COPPER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.8	23.3
IRON	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24,300	30,900
LEAD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	291 J * ^a	9.7 J
MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,370	NA
MANGANESE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	249	357
MERCURY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.77	--
NICKEL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.3	54.2
POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,190 J	15,600
SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,440	NA
TIN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.2	15.4
TITANIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,730	3,660
VANADIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	69.3	111
ZINC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	135	59.7
PETROLEUM INDICATORS (mg/kg)													
DIESEL RANGE	--	--	--	--	--	--	--	--	--	--	--	30 J	--
MOTOR OIL RANGE	53 Y	190 Y	28 Y	10 Y	7,800 Y	9 Y	170 Y	160 Y	130 Y	120 Y	170 J	170 J	230 Y
pH													
pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.6	NA

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	B386GB017	B386GB017	B386GB017	B386GB017	B386GB018 ^S	B386GB018	B386GB018	B386GB018	B386GB018	B386GB018	B386GB001	B386GB001
Sample Depth (feet BGS)	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	3.0 - 4.0	4.0 - 4.8
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)												
ALUMINUM	NA	NA	NA	NA	11,900	NA	NA	NA	NA	NA	30,700	28,000
ANTIMONY	8.1 J	--	--	5.8 J	11.0 *	10.1 *	--	--	--	--	0.73 J	0.59 J
ARSENIC	--	--	--	--	15.8 I	--	--	--	--	--	11.6 I	11.1 I
BARIUM	NA	NA	NA	NA	140	NA	NA	NA	NA	NA	85.3	82.9
BERYLLIUM	NA	NA	NA	NA	--	NA	NA	NA	NA	NA	1.1 J *	0.97 J *
CADMUM	--	--	--	--	5.8 J * ^a	--	--	--	--	--	--	--
CALCIUM	18,500	12,400	10,600	280,000	9,610	9,740	6,820	5,740	6,080	5,100	3,460	3,410
CHROMIUM	101	196 * ^a	179 * ^a	99.8	172 * ^a	171 * ^a	104	113	94.9	95.9	86.9	84.2
COBALT	--	--	--	--	22.6 J	--	--	--	--	--	19.9	18.9
COPPER	305 * ^a	40.0	35.0	37.2	2,130 * ^a	2,230 * ^a	148 *	24.3	--	85.9	60.8	54.1
IRON	36,200	44,500	45,900	30,100	66,100	41,700	27,900	27,200	20,800	28,200	40,600	41,000
LEAD	223 * ^a	11.2	11.0	--	350 J * ^a	230 * ^a	22.2	18.5	12.8	18.0	34.9 J	30.0 J
MAGNESIUM	NA	NA	NA	NA	2,470 J	NA	NA	NA	NA	NA	9,310	9,720
MANGANESE	1,270	847	812	514	859	598	275	253	281	290	438 J	455 J
MERCURY	--	--	--	--	0.95	--	--	--	--	--	0.66 J	0.46 J
MOLYBDENUM	NA	NA	NA	NA	19.2	NA	NA	NA	NA	NA	38.4 J	39.6 J
NICKEL	61.4	95.6	98.2	82.2	811 * ^a	532 * ^a	64.5	28.5	19.8	57.6	84.4	85.5
POTASSIUM	16,800	8,720	8,760	4,760	7,900 J	15,300	15,000	15,900	16,700	15,700	3,010	3,260
SILVER	--	--	--	--	--	--	--	4.5 J	--	--	--	--
SODIUM	NA	NA	NA	NA	1,890 J	NA	NA	NA	NA	NA	2,680	2,800
THALLIUM	NA	NA	NA	NA	--	NA	NA	NA	NA	NA	--	2.5
TIN	24.8	14.8	8.1 J	15.4	75.7	47.4	8.1 J	6.8 J	8.5 J	13.1	NA	NA
TITANIUM	3,660	4,530	4,660	3,450	3,940	3,900	4,040	4,270	4,110	4,380	NA	NA
VANADIUM	104	110	148	51.2	71.1	89.3	101	109	109	114	101	93.7
ZINC	215	76.0	66.6	78.7	3,440 * ^a	1,800 * ^a	56.0	40.8	46.1	135	104 J	87.3 J
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
ACETONE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 J	0.1 J
SEMITVOLATILE ORGANIC COMPOUNDS (mg/kg)												
PHENOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 J	--
TOTAL SVOCs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 J	--
PESTICIDES (mg/kg)												
ALDRIN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0009	--
DELTA-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 J	--
PCBs (mg/kg)												
AROCLOR-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	0.006 J
TOTAL PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	0.006 J
PETROLEUM INDICATORS (mg/kg)												
MOTOR OIL RANGE	70 Y	16 Y	--	--	2,700 Y	470 Y	9 Y	--	--	--	--	--
PH												
PH	NA	NA	NA	NA	8.0	NA	NA	NA	NA	NA	7.7	8.0

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B388GB003 S	B388GB003 S	B388GB003 S	B388GB003 S	B388GB003 S	B388GB003 S	B388GB004	B388GB004 S	B388GB004 S	B388GB005 S	B388GB005 S	B388GB005 S
Sample Depth (feet BGS)	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	1.0 - 1.5	2.0 - 2.5	4.0 - 4.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)												
ALUMINUM	NA	16,300	NA	NA	NA	NA	NA	NA	NA	10,100	NA	NA
ANTIMONY	--	3.9 J	0.98 J	5.5 J	1.1 J	5.7 J	5.9 J	1.1 J	--	--	3.5 J	4.8 J
ARSENIC	8.8 J I	9.4 J I	4.8 J I	4.8 J I	18.3 I	29.9 I	15.2 I	3.3 J I	21.2 I	9.7 J I	24.2 I	9.4 J I
BARIUM	NA	103	NA	NA	NA	NA	NA	NA	NA	189	NA	NA
BERYLLIUM	NA	0.26 J	NA	NA	NA	NA	NA	NA	NA	0.38 J	NA	NA
CADMUM	--	1.3 J	3.0 J	0.95 J	--	0.37 J	--	0.61 J	--	1.4 J	1.3 J	--
CALCIUM	63,600	39,400	17,200	28,800	6,440	6,280	8,770	8,970	6,990	10,100	6,220	21,800
CHROMIUM	116	75.0	118	119	179 * α	155 *	87.6	73.6	171 * α	32.8	191 * α	108
CHROMIUM VI	NA	--	NA	NA	--	NA	NA	NA	NA	--	NA	NA
COBALT	--	11.1 J	--	--	--	--	--	--	--	8.7 J	--	--
COPPER	82.4	51.6 J	31.2	50.3	68.1	67.6	--	30.1	64.1	14.2 J	76.8	49.8
IRON	75,400	48,900	39,600	47,300	57,000	57,300	37,300	26,400	50,600	23,800	61,000	39,700
LEAD	8.0 J	15.3 J	25.4	29.8	25.3	6.2 J	9.6 J	17.9	37.2	9.5 J	10.0	20.1
MAGNESIUM	NA	5,260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MANGANESE	1,480	902	498	775	355	700	314	245	387	378	830	490
MERCURY	--	0.81 J	--	--	--	--	--	--	--	--	--	1.8 J
NICKEL	40.4	48.2	53.0	55.8	101	89.7	30.2	20.1	103	20.6	111	49.1
POTASSIUM	1,810	2,180 J	15,000	13,600	15,000	13,400	17,500	17,300	14,300	13,400 J	12,900	17,000
SILVER	5.3 J	--	--	--	--	--	--	--	--	--	0.55 J	0.43 J
SODIUM	NA	1,490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIN	15.6	11.1	8.7 J	17.5	11.8	7.6 J	14.9	12.7	12.5	11.8	10.6	7.6 J
TITANIUM	7,370	7,040	4,580	5,270	5,130	5,100	4,220	3,700	5,150	2,950	5,330	3,450
VANADIUM	280 * α	165	129	171	197 *	209 *	136	89.5	200 *	62.2	213 *	77.1
ZINC	88.5	94.5	93.2	122	103	94.5	54.2	48.2	126	67.9	113	121
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
TOLUENE	NA	--	0.0004 J	--	--	NA	--	--	NA	NA	NA	NA
XYLENE (TOTAL)	NA	--	0.0006 J	--	0.0005 J	0.0007 J	NA	--	--	NA	NA	NA
SEMITVOLATILE ORGANIC COMPOUNDS (mg/kg)												
BENZO(A)PYRENE	--	--	--	--	0.1 J	0.2 J	NA	NA	NA	--	--	--
FLUORANTHENE	--	0.01 J	0.01 J	--	0.01 J	0.03 J	NA	NA	NA	--	--	--
PHENANTHRENE	--	0.01 J	--	--	--	--	NA	NA	NA	--	--	--
PHENOL	--	0.8	0.4 J	0.3 J	0.1 J	0.7	NA	NA	NA	0.5	0.1 J	1
PYRENE	0.04 J	0.02 J	0.02 J	--	0.01 J	0.03 J	NA	NA	NA	--	--	--
TOTAL SVOCs	0.04 J	0.8 J	0.4 J	0.3 J	0.3 J	0.9 J	NA	NA	NA	0.5	0.1 J	1
PESTICIDES (mg/kg)												
4,4'-DDT	--	--	0.003 J	--	--	--	NA	NA	NA	--	--	--
ALDRIN	--	0.004 J	0.006 J	--	--	--	NA	NA	NA	--	--	--
ALPHA-CHLORDANE	--	0.001 J	--	--	--	--	NA	NA	NA	--	--	--
HEPTACHLOR	--	0.001 J	0.003 J	--	--	--	NA	NA	NA	--	--	--
HEPTACHLOR EPOXIDE	--	0.0007 J	0.002 J	--	--	--	NA	NA	NA	--	--	--
PCBs	--	--	--	--	--	--	NA	NA	NA	--	--	--

Notes to table on page

TABLE 1 (Continued)

**BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA**

Sample Location ID	B388GB003 S	B388GB004	B388GB004 S	B388GB004 S	B388GB005 S	B388GB005 S	B388GB005 S					
Sample Depth (feet BGS)	0.0 - 0.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	1.0 - 1.5	2.0 - 2.5	4.0 - 4.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PETROLEUM INDICATORS (mg/kg)												
DIESEL RANGE	800 Y	2 Y	220 Y	140 Y	9 Y	8 Y	29 Y	2 Y	46 Y	2 Y	8 Y	9 Y
MOTOR OIL RANGE	13,000 Y	39 Y	2,900 Y	2,800 Y	79 Y	130 Y	100 Y	10 Y	140 Y	21 Y	55 Y	76 Y
PH												
PH	6.8	7.2	7.5	7.8	7.8	8.2	NA	7.4	7.3	NA	NA	NA

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
GROUP II AND III INVESTIGATION
MARE ISLAND, CALIFORNIA

Sample Location ID	B388GB005 ^S	B388GB005 ^S	B388GB006 ^S	B388GB006 ^S	B388GB006 ^S	B388GB006 ^S	B388GB006 ^S	B388GB006 ^S	B388GB007	B388GB007	B388GB007	B388GB007
Sample Depth (feet BGS)	8.0 - 8.5	10.0 - 10.5	1.0 - 1.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
METALS (mg/kg)												
ALUMINUM	NA	NA	NA	NA	22,700 2.0 J 58.6 * ^a	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	1.9 J 4.9 J I	3.7 J 25.6 I	5.7 J 1.3 J	0.07 J 11.8 I	11.8 I NA	12.6 I NA	8.1 J I	1.1 J 2.6 J I	7.5 J NA	5.8 J 12.6 I	19.8 I NA	16.1 I NA
ARSENIC	NA	NA	NA	NA	180	NA	NA	NA	NA	NA	NA	NA
BARIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.00 J	0.32 J	2.0 J	2.5 J	2.8 J 4,960	--	--	--	--	--	--	--
CALCIUM	6,140	5,700	88,200	88,200	7,770 133	6,320 167 * ^a	5,820 168 * ^a	7,630 119	13,500 150 *	6,240 177 * ^a	9,120 206 * ^a	6,570 154 *
CHROMIUM	155 *	179 * ^a	122	--	24.7 J	--	--	--	--	--	--	--
COBALT	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
COPPER	67.1	58.9	70.7	50.7	59.1	59.6	57.1	28.1	80.3	80.8	74.0	36.2
IRON	52,700	55,200	92,800	55,200	67,100 36.9 J	49,400 9.5 J	46,200 10.5	31,300 22.9	48,700 86.3 * ^a	66,400 24.2	83,900 15.0	50,300 12.5
LEAD	26.7	10.2	--	77.6 * ^a	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	NA	NA	8,150	NA	NA	NA	NA	NA	NA	NA
MANGANESE	417	721	1,870 *	892	2,270 *	383	567	113	616	418	1,910 *	349
MERCURY	--	--	--	--	0.66	--	--	--	--	--	--	--
NICKEL	--	--	--	--	107	96.5	114	102	80.0	112	122	95.3
POTASSIUM	102	88.2	35.0	13,600	7,530 J	13,500	14,400	14,400	11,600	15,800	15,400	12,900
SILVER	2.7 J	--	2.8 J	--	--	--	--	--	--	--	--	--
SODIUM	NA	NA	NA	NA	703 J	NA	NA	NA	NA	NA	NA	NA
TIN	6.7 J	9.1 J	16.2	16.2	13.5	5.8 J	10.1	8.8 J	17.9	7.7 J	5.2 J	5.4 J
TITANIUM	4,800	5,070	9,760	5,240	5,000	5,100	5,300	3,020	5,010	5,340	5,000	4,320
VANADIUM	197 *	196 *	321 * ^a	198 *	140	211 *	201 *	138	188	214 *	148	200 *
ZINC	110	97.0	99.6	166	116	91.9	88.7	54.3	212	143	108	112
SEMOVOLATILE ORGANIC COMPOUNDS (mg/kg)												
2,4-DIMETHYLPHENOL	--	0.2 J	--	--	--	0.3 J	3	0.3 J	NA	NA	NA	NA
4-METHYLPHENOL	--	--	--	--	--	0.2 J	0.4 J	0.3 J	NA	NA	NA	NA
BENZO(A)ANTHRACENE	--	--	--	--	0.02 J	--	--	--	NA	NA	NA	NA
BENZO(A)PYRENE	--	--	--	--	0.03 J	--	--	--	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	--	--	--	--	0.03 J	--	--	--	NA	NA	NA	NA
BENZO(G, H, I)PERYLENE	--	--	--	--	0.02 J	--	--	--	NA	NA	NA	NA
CHRYSENE	--	--	--	--	0.02 J	--	--	--	NA	NA	NA	NA
FLUORANTHENE	--	--	--	--	0.03 J	--	--	--	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	--	--	--	--	0.01 J	--	--	--	NA	NA	NA	NA
PHENANTHRENE	--	--	--	--	0.02 J	--	--	--	NA	NA	NA	NA
PHENOL	1	3	--	--	--	--	--	0.2 J	NA	NA	NA	NA
PYRENE	--	--	--	--	0.04 J	--	--	--	NA	NA	NA	NA
TOTAL SVOCs	1	3 J	--	--	0.2 J	0.5 J	3 J	0.8 J	NA	NA	NA	NA
PESTICIDES (mg/kg)												
ENDOSULFAN SULFATE	--	--	--	--	--	--	0.004 J	--	NA	NA	NA	NA
PCBs	--	--	--	--	--	--	--	--	NA	NA	NA	NA
PETROLEUM INDICATORS (mg/kg)												
DIESEL RANGE	--	9 Y	94 Y	2 Y	10 Y	16 Y	--	11 Y	--	--	--	--
MOTOR OIL RANGE	5,400 Y	220 Y	520 Y	17 Y	190 Y	540 Y	1,800 Y	210 Y	98 Y	240 Y	160 Y	210 Y

Notes to table on page

TABLE 1 (Continued)

BUILDINGS 382, 386, 388, AND 390 SUMMARY OF ANALYTICAL RESULTS FOR NONAQUEOUS SAMPLES
 GROUP II AND III INVESTIGATION
 MARE ISLAND, CALIFORNIA

Sample Location ID	B388GB005 ^s	B388GB005 ^s	B388GB006 ^s	B388GB007	B388GB007	B388GB007	B388GB007					
Sample Depth (feet BGS)	8.0 - 8.5	10.0 - 10.5	1.0 - 1.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5	10.0 - 10.5	2.0 - 2.5	4.0 - 4.5	6.0 - 6.5	8.0 - 8.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL							
PH												
PH	NA	NA	7.7	7.9	8.0	8.0	7.9	7.1	NA	NA	NA	NA

Notes to table on page